AlphaTheta

Service Manual

CDJ-3000

ORDER NO.
RRV4702

MULTI PLAYER

CDJ-3000
CDJ-3000-W

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
CDJ-3000	LSYXJ	AC 110 V to 240 V	
CDJ-3000	AXJ	AC 220 V	
CDJ-3000	UXJCB	AC 120 V	
CDJ-3000	JXJ	AC 100 V	
CDJ-3000-W	AXJ	AC 220 V	
CDJ-3000-W	UXJCB	AC 120 V	
CDJ-3000-W	PXJ	AC 110 V to 240 V	
CDJ-3000-W	JXJ	AC 100 V	

THIS SERVICE MANUAL SHOULD BE USED TOGETHER WITH THE FOLLOWING MANUAL(S).

Model	Order No.	Remarks
CDJ-3000, CDJ-3000-W	RRV4701	BLOCK DIAGRAM, EXPLODED VIEWS AND PARTS LIST etc.

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K-ZZZ AUG. 2020

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

Caution
Since the fuse may be neutral of the mains supply, disconnect the mains to de-energize the phase conductors.

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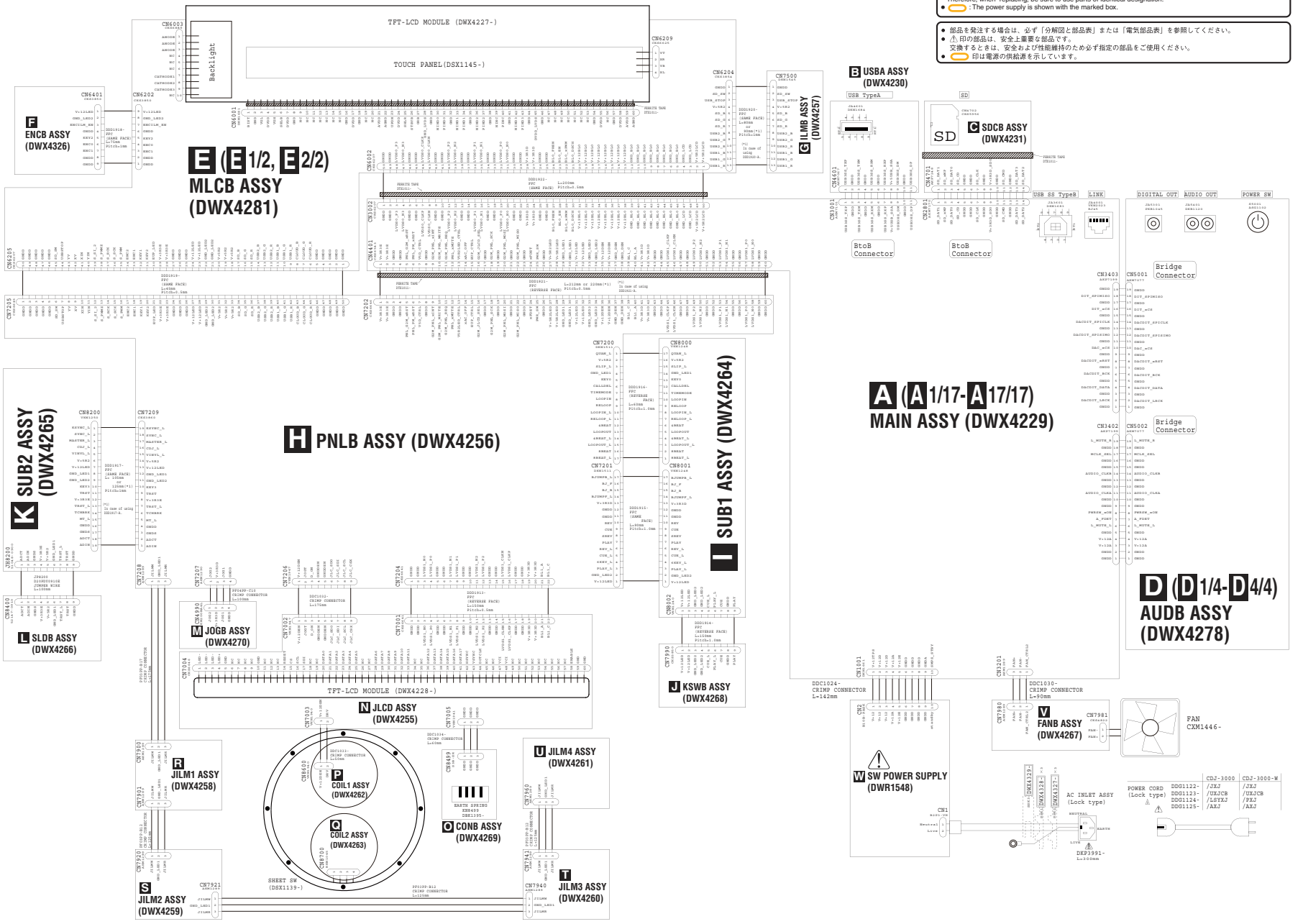
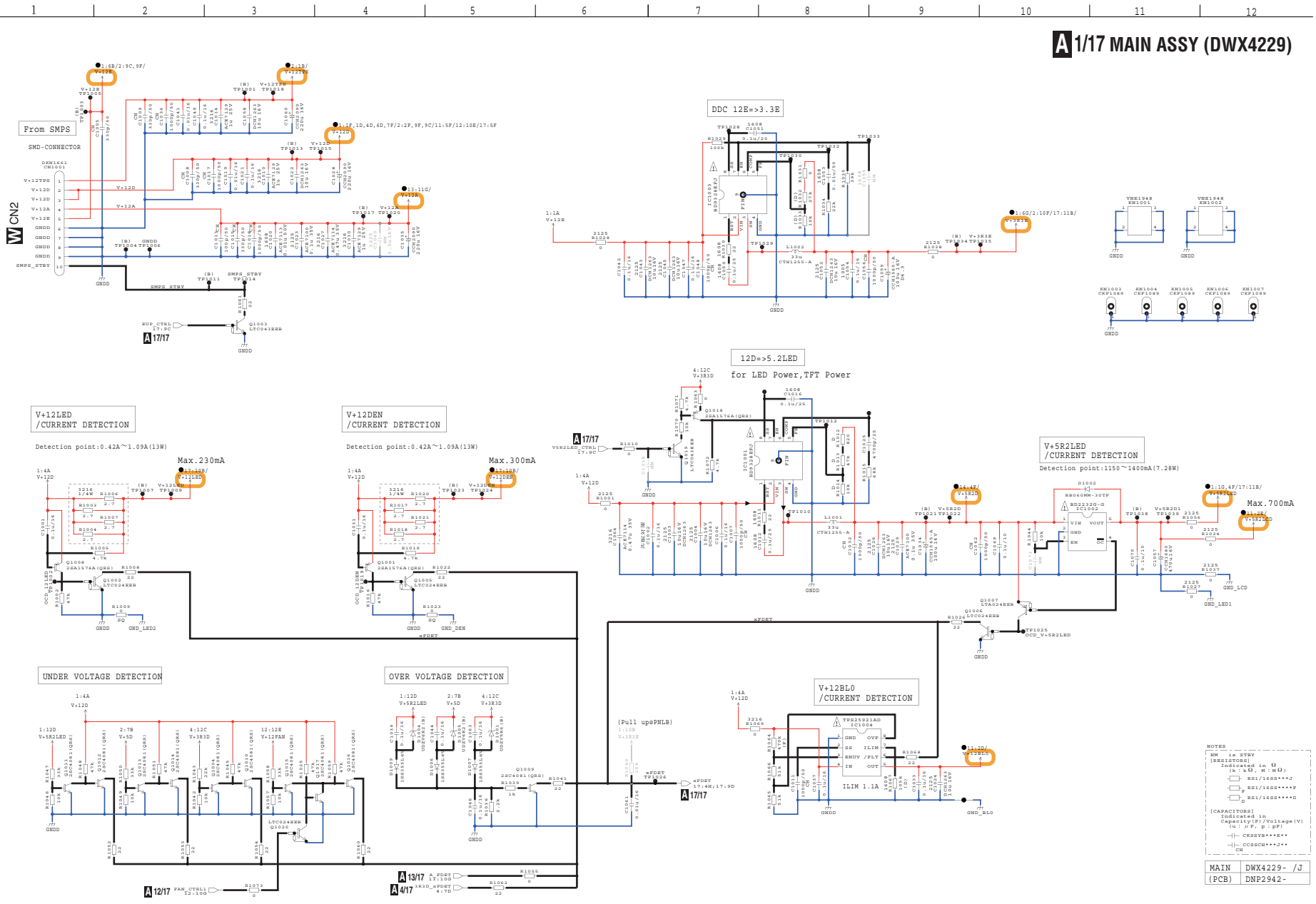
10. SCHEMATIC DIAGRAM

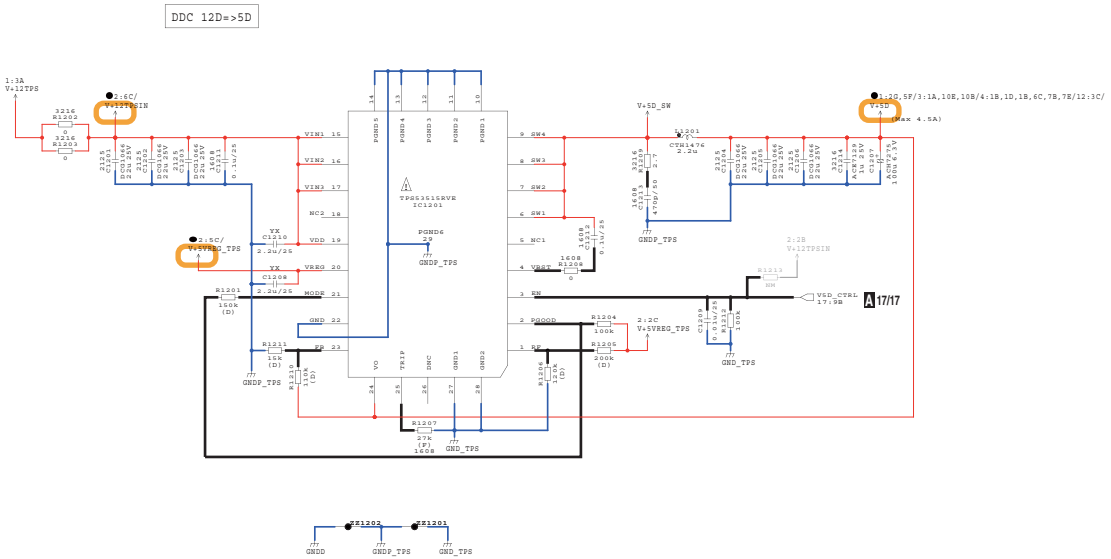
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply is shown with the marked box.

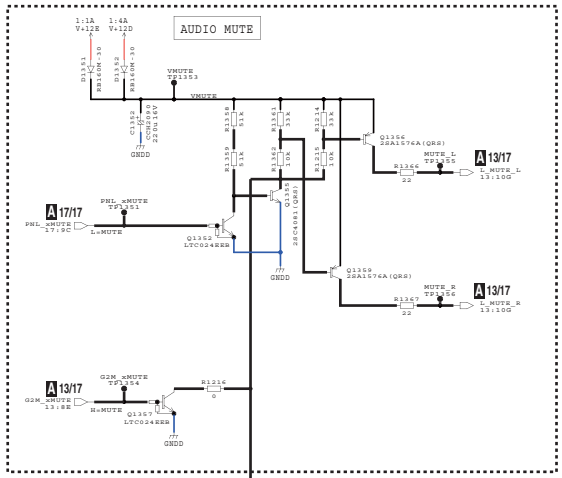
- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- ⚠ 印の部品は、安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- ⬭ 印は電源の供給源を示しています。

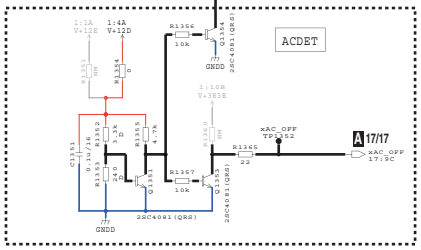


POWER CORD (Lock type)	CDJ-3000	CDJ-3000-W
DDC1122-	/JXJ	/JXJ
DDC1123-	/UXJCB	/UXJCB
DDC1124-	/LSYXJ	/LSYXJ
DDC1125-	/AXJ	/AXJ


A 1/17 MAIN ASSY (DWX4229)
From SMPS
SMD-CONNECTOR
CN2
DDC 12E=>3.3E
12D=>5.2LED
for LED Power,TFT Power
V+12LED
/CURRENT DETECTION
Detection point:0.42A~1.09A(13W)
Max.230mA
V+12DEN
/CURRENT DETECTION
Detection point:0.42A~1.09A(13W)
Max.300mA
V+5R2LED
/CURRENT DETECTION
Detection point:1150~1400mA(7.28W)
Max.700mA
UNDER VOLTAGE DETECTION
OVER VOLTAGE DETECTION
V+12BL0
/CURRENT DETECTION
ILIM 1.1A
(Pull up@PNLB)
NOTES
MAIN DWX4229- /J
(PCB) DNP2942-
A 1/17
A 1/17



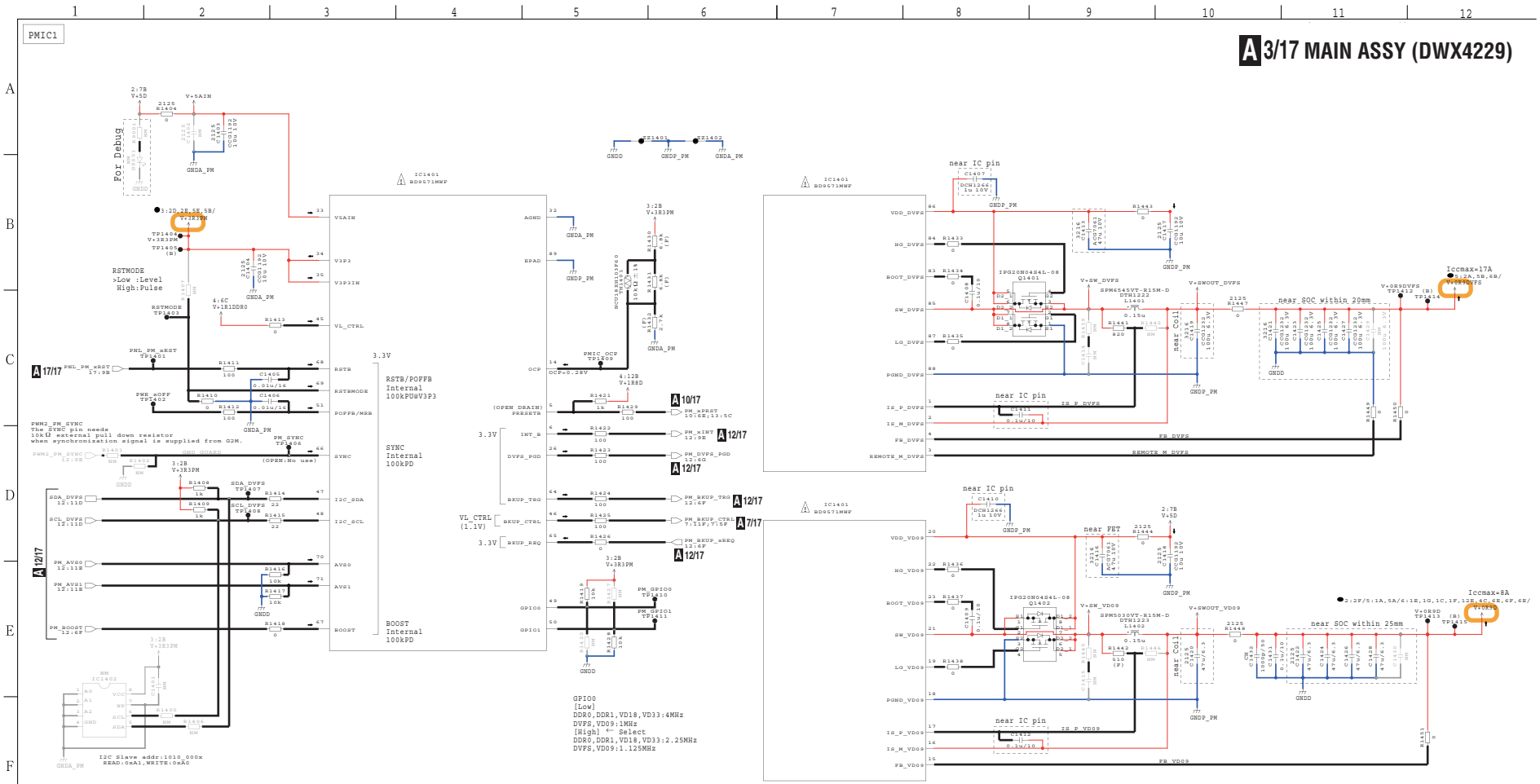




NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
RS1/16SS****D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CSSSCH***J**
CH

MAIN	DWX4229- /J
(PCB)	DNP2942-

A 3/17 MAIN ASSY (DWX4229)



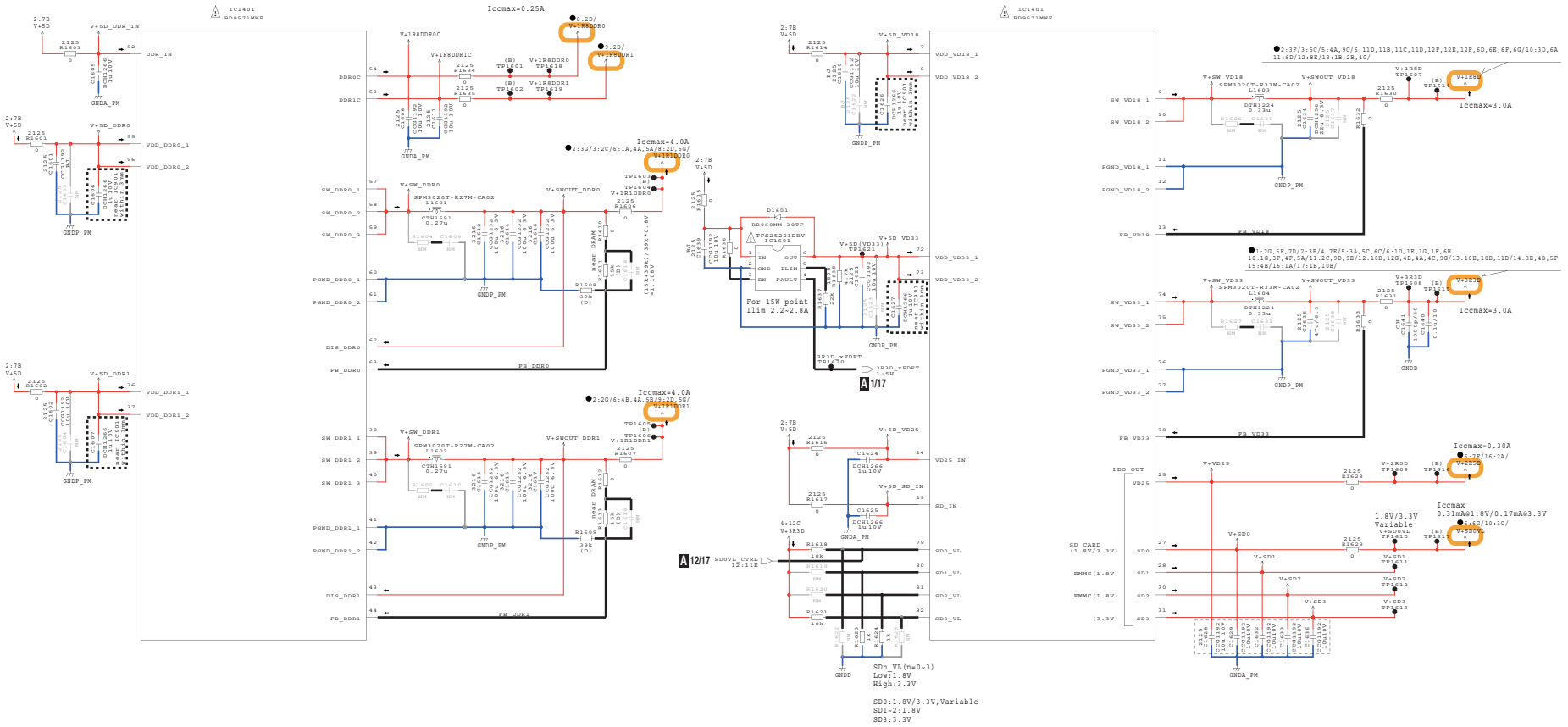
MAIN	DWX4229- /J
(PCB)	DNP2942-

A 3/17

A 3/17

PMIC2

A 4/17 MAIN ASSY (DWX4229)



NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS***F
RS1/16SS***D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**

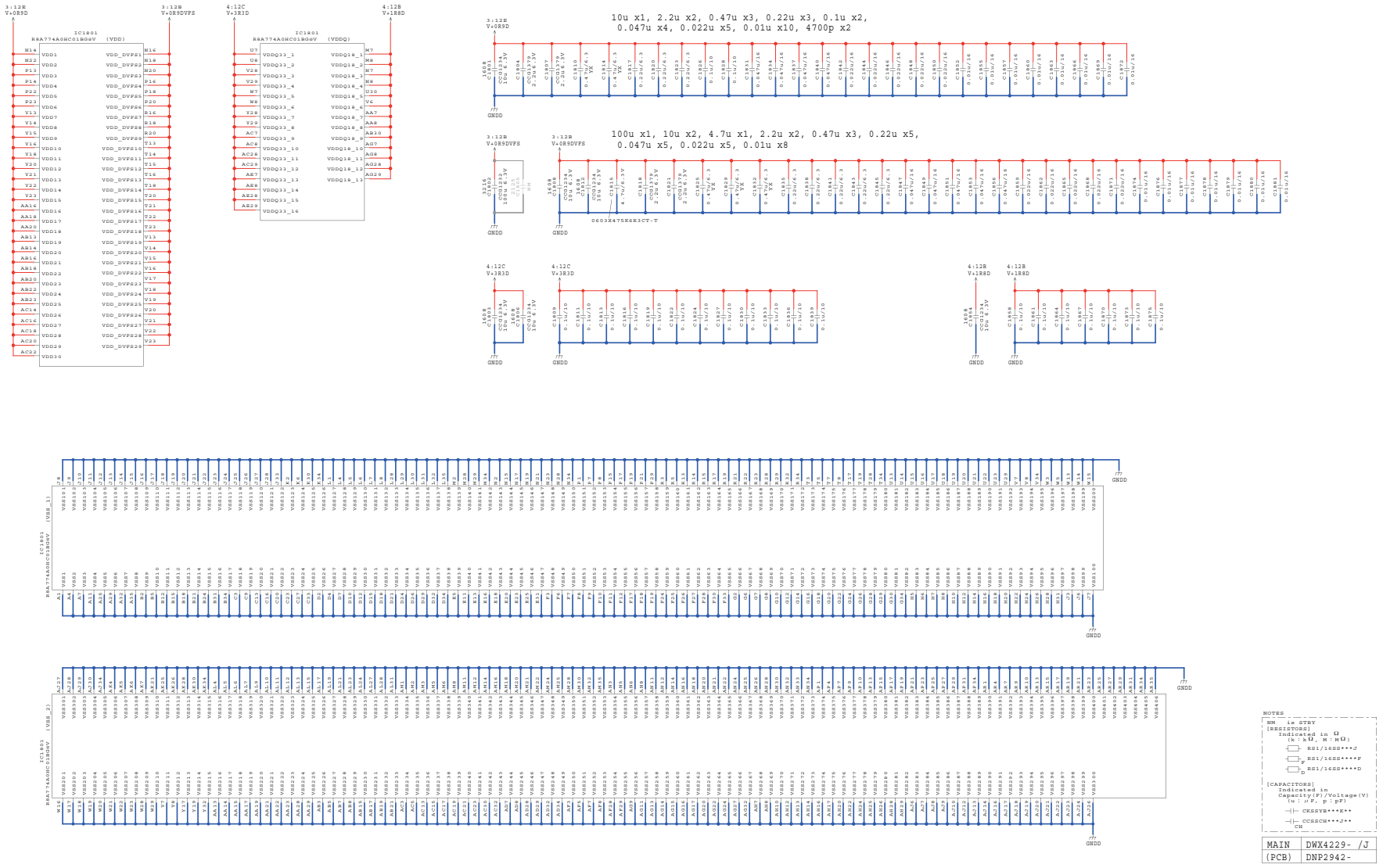
MAIN	DWX4229- /J
(PCB)	DNP2942-

A 4/17

A 4/17

A 5/17 MAIN ASSY (DWX4229)

G2M PWR1/GND



NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS***F
RS1/16SS***D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**
CH

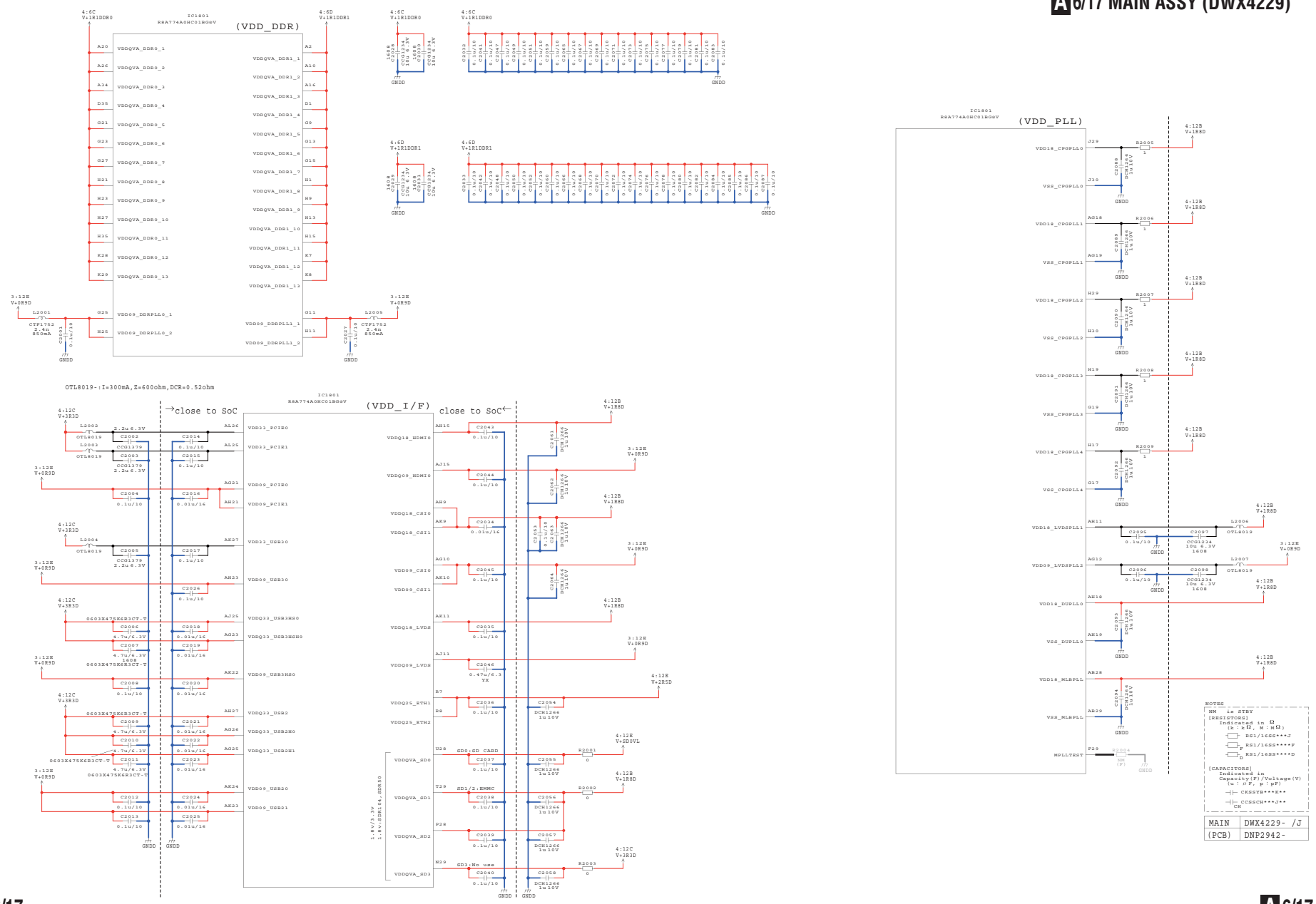
MAIN	DWX4229- /J
(PCB)	DNP2942-

A 5/17

A 5/17

G2M PWR2

A 6/17 MAIN ASSY (DWX4229)

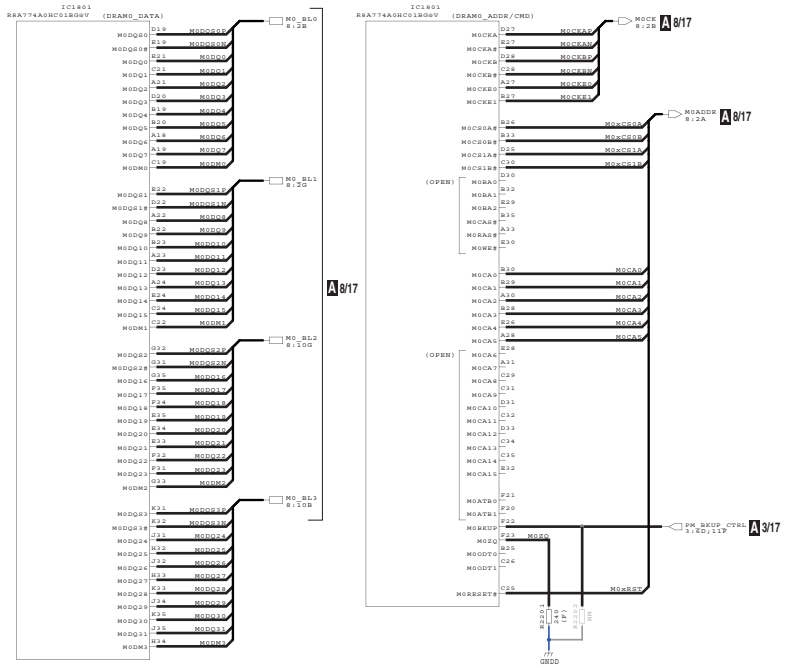


A 6/17

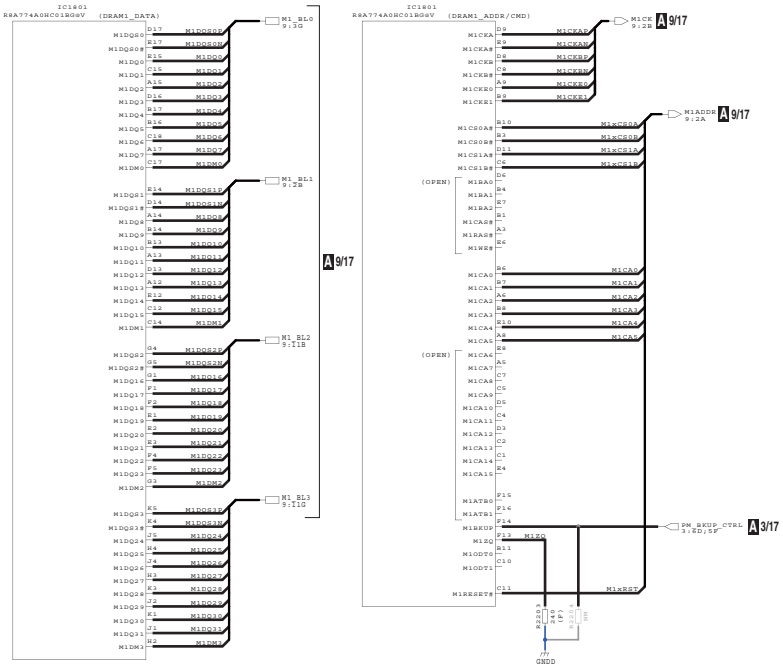
G2M DRAM CTRL

DRAM CTRL0

Ref. 2401~



DRAM CTRL1

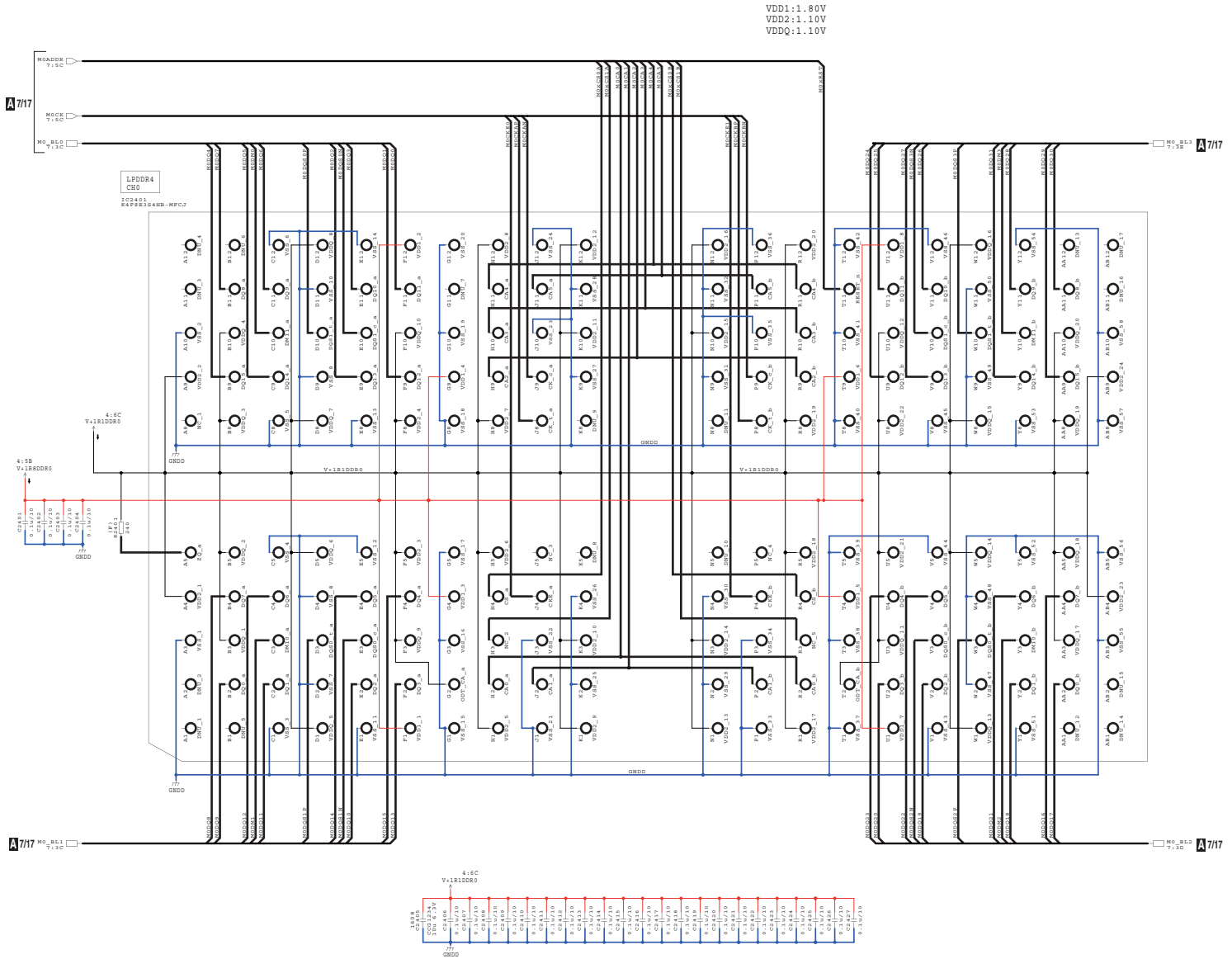


NOTES

NM : ≠ STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
RS1/16SS****D

[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**
CH

MAIN	DWX4229- /J
(PCB)	DNP2942-

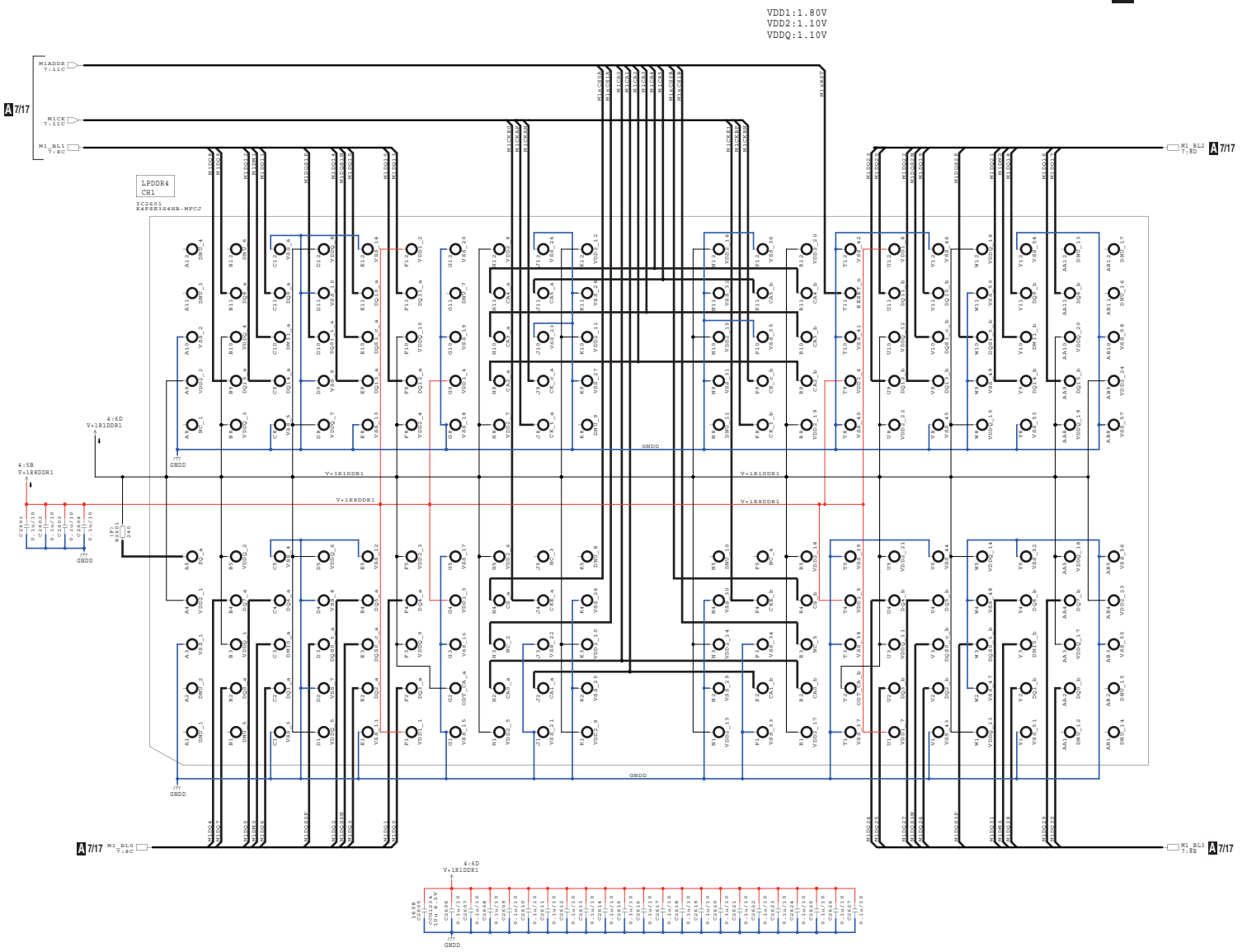


NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
RS1/16SS****D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p :pF)
CKSSYB***K**
CCSSCH***J**
CH

MAIN	DWX4229- /J
(PCB)	DNP2942-

DRAM2

VDD1:1.80V
VDD2:1.10V
VDDQ:1.10V

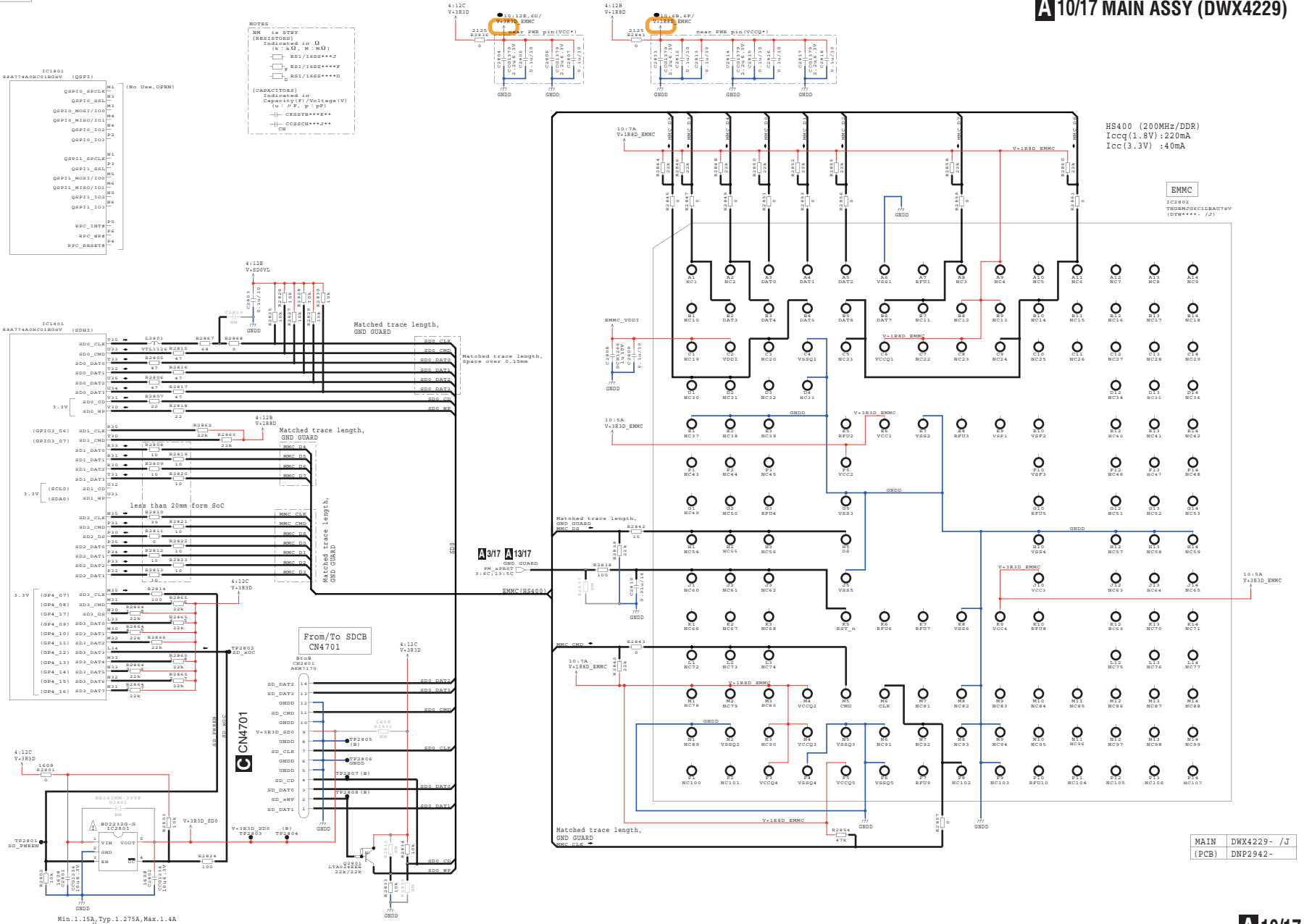


NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
RS1/16SS****D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**
CH

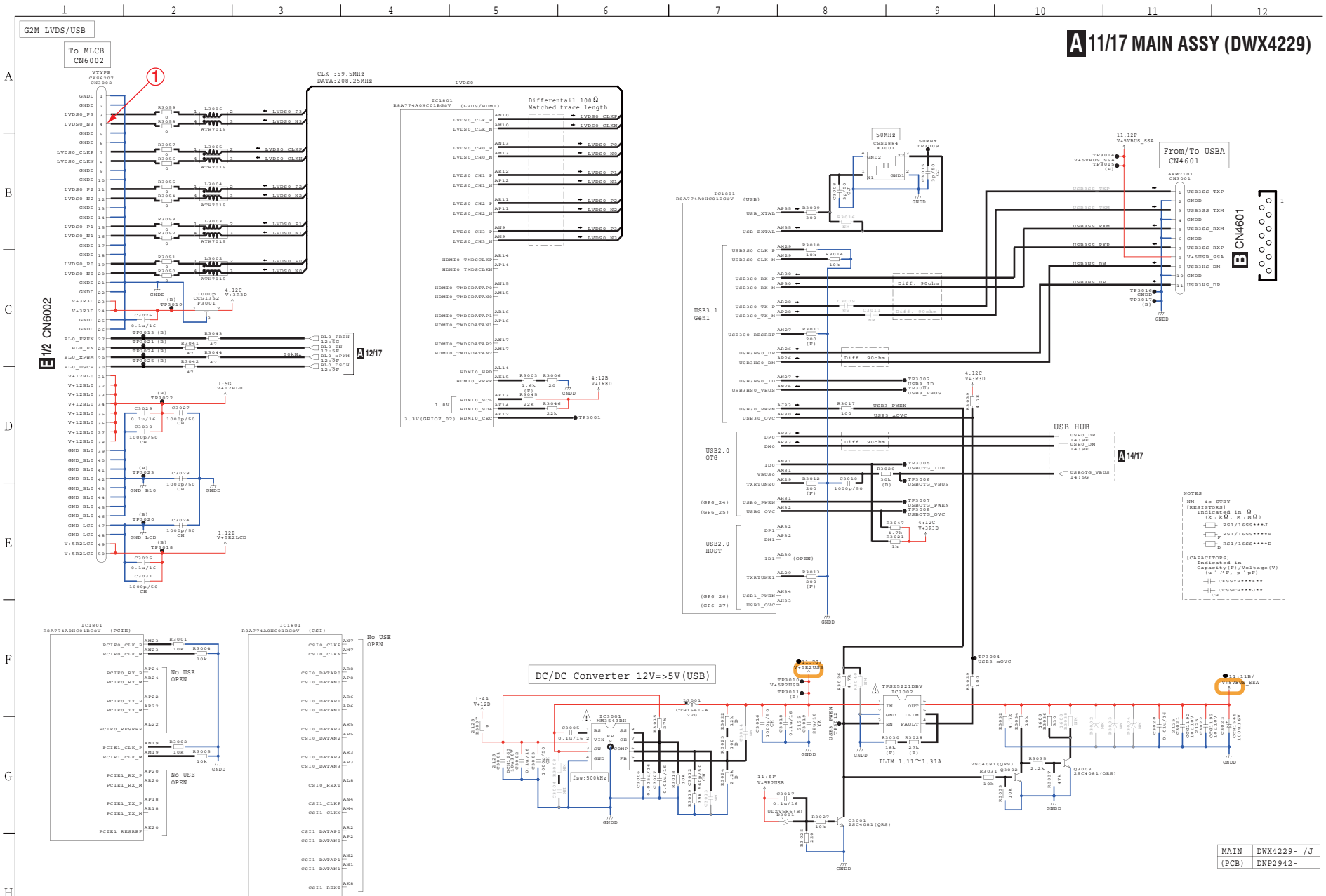
MAIN	DWX4229- /J
(PCB)	DNP2942-

G2M EMMC/SDHI

A 10/17 MAIN ASSY (DWX4229)

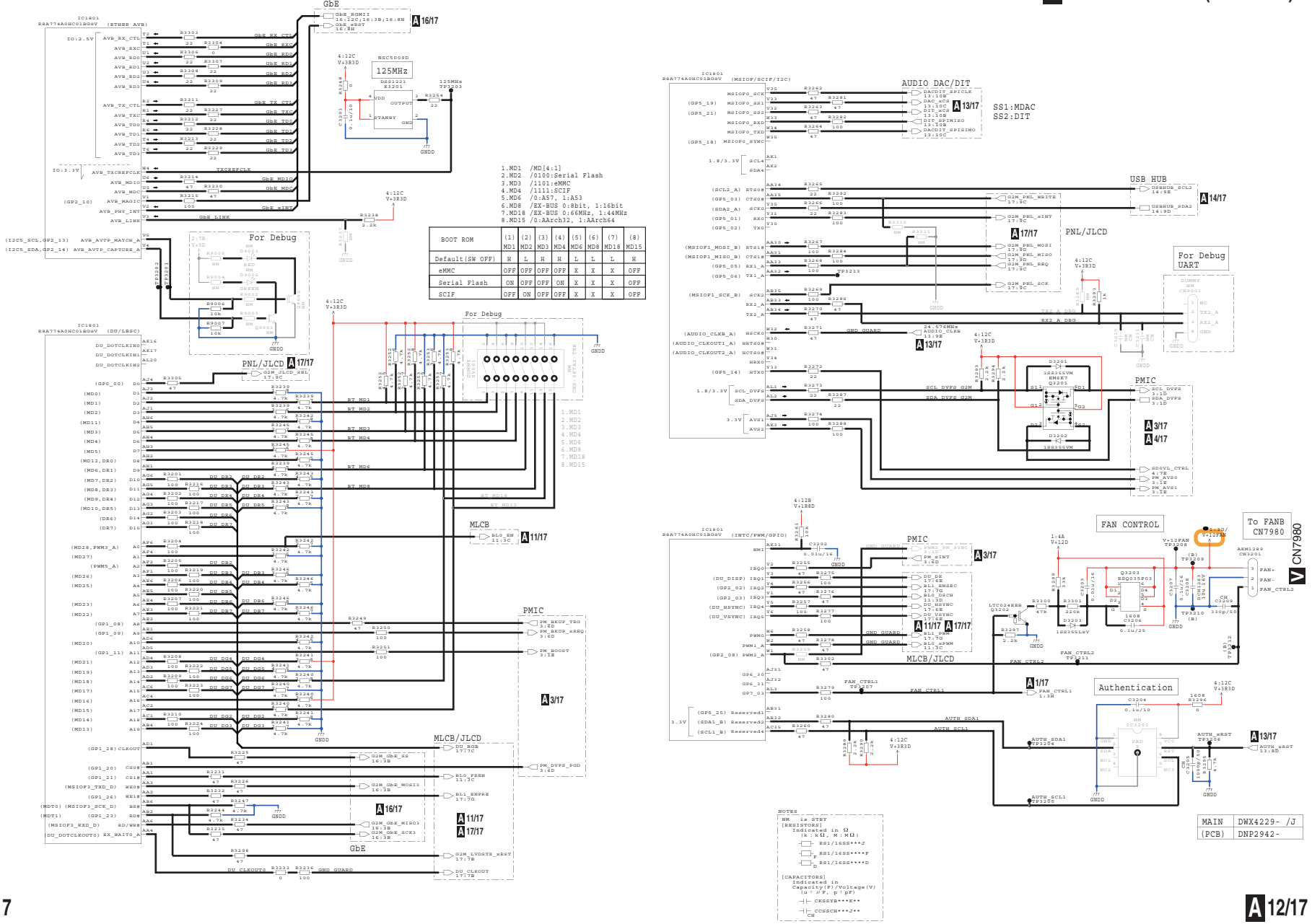


MAIN	DWX4229- /J
(PCB)	DNP2942-


G2M LVDS/USB
A 11/17 MAIN ASSY (DWX4229)
To MLCB CN6002
E 1/2 CN6002
CLK :59.5MHz
DATA:208.25MHz
LVDS0
Differentail 100Ω Matched trace length
A 12/17
From/To USBA CN4601
B CN4601
USB3.1 Gen1
USB2.0 OTG
USB2.0 HOST
USB HUB
A 14/17
DC/DC Converter 12V=>5V(USB)
ILIM 1.11~1.31A
fsw:500kHz
No USE OPEN
NOTES
MAIN | DWX4229- /J
(PCB) | DNP2942-
A 11/17
A 11/17

G2M GbE/DRGB/CTRL/AUTH

A 12/17 MAIN ASSY (DWX4229)



1.MD1 /MD[4:1]
2.MD2 /0100:Serial Flash
3.MD3 /1101:eMMC
4.MD4 /1111:SCIF
5.MD6 /0:A57, 1:A53
6.MD8 /EX-BUS 0:8bit, 1:16bit
7.MD18 /EX-BUS 0:66MHz, 1:44MHz
8.MD15 /0:AArch32, 1:AArch64

BOOT ROM	(1) MD1	(2) MD2	(3) MD3	(4) MD4	(5) MD6	(6) MD8	(7) MD18	(8) MD15
Default(SW OFF)	H	L	H	H	L	L	L	H
eMMC	OFF	OFF	OFF	OFF	X	X	X	OFF
Serial Flash	ON	OFF	OFF	ON	X	X	X	OFF
SCIF	OFF	ON	OFF	OFF	X	X	X	OFF

NOTES
NM : in STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
D
RS1/16SS****D
[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**
CH

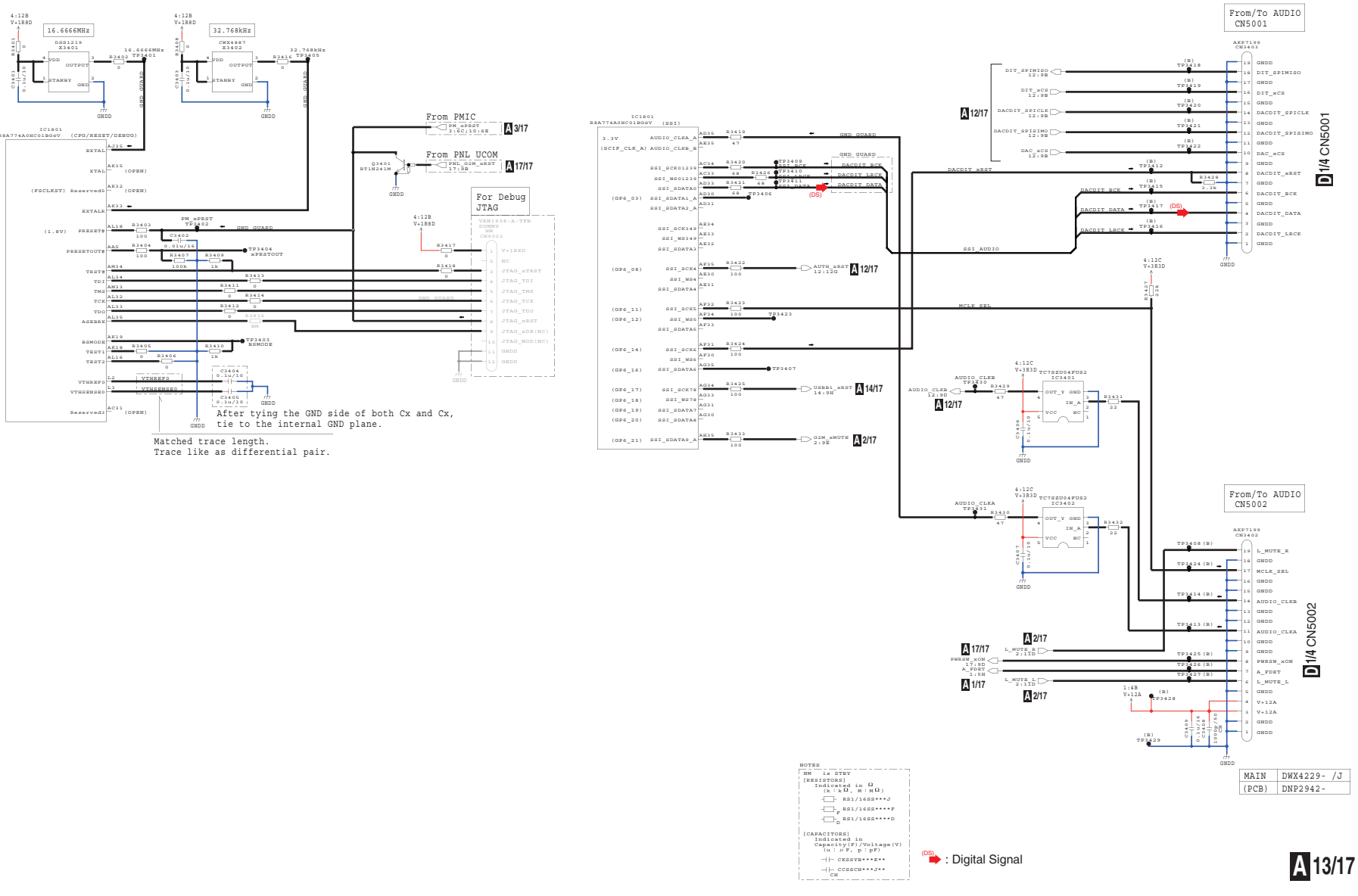
MAIN	DWX4229- /J
(PCB)	DNP2942-

A 12/17

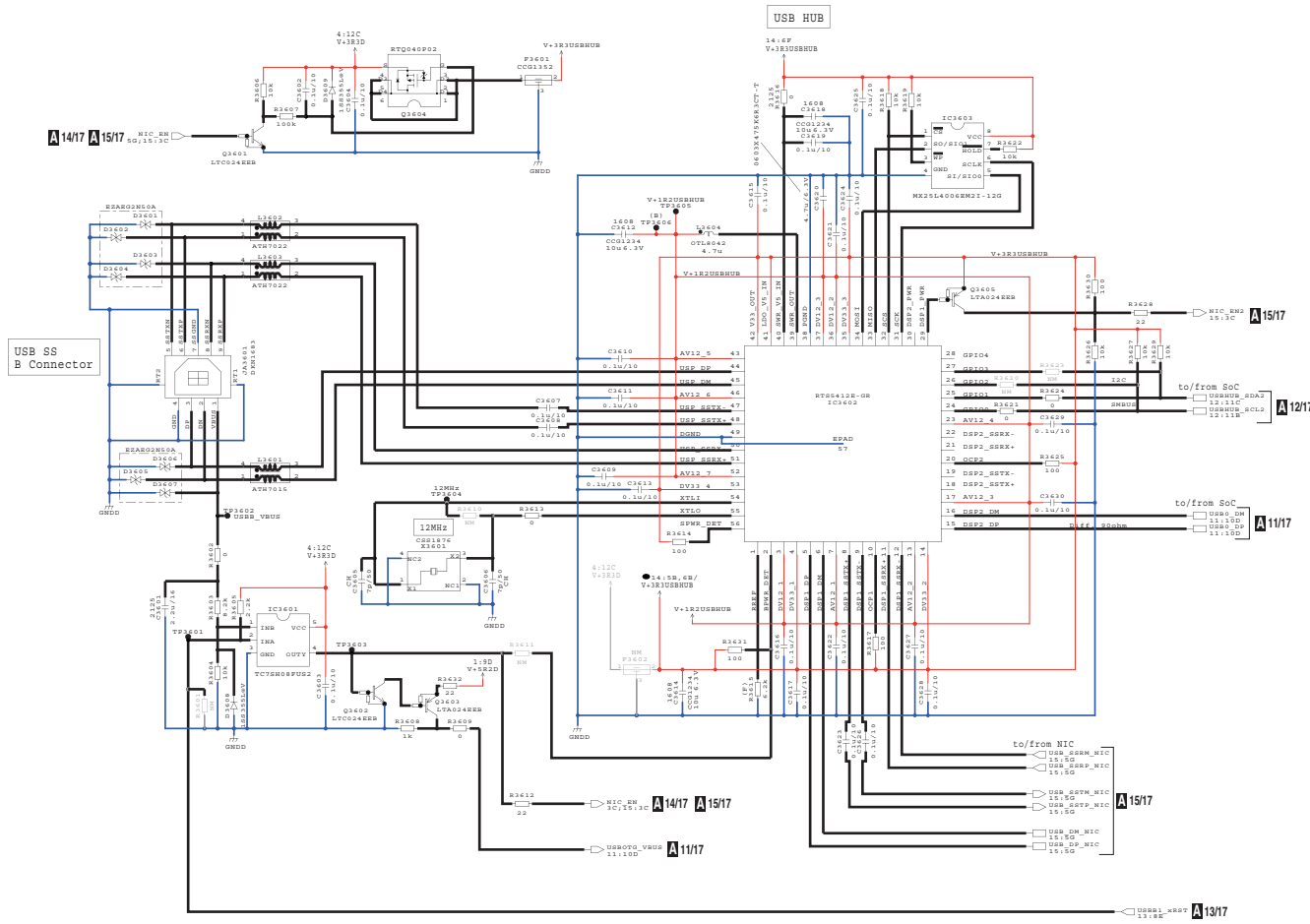
A 12/17

G2M AUDIO/SYSTEM

A 13/17 MAIN ASSY (DWX4229)

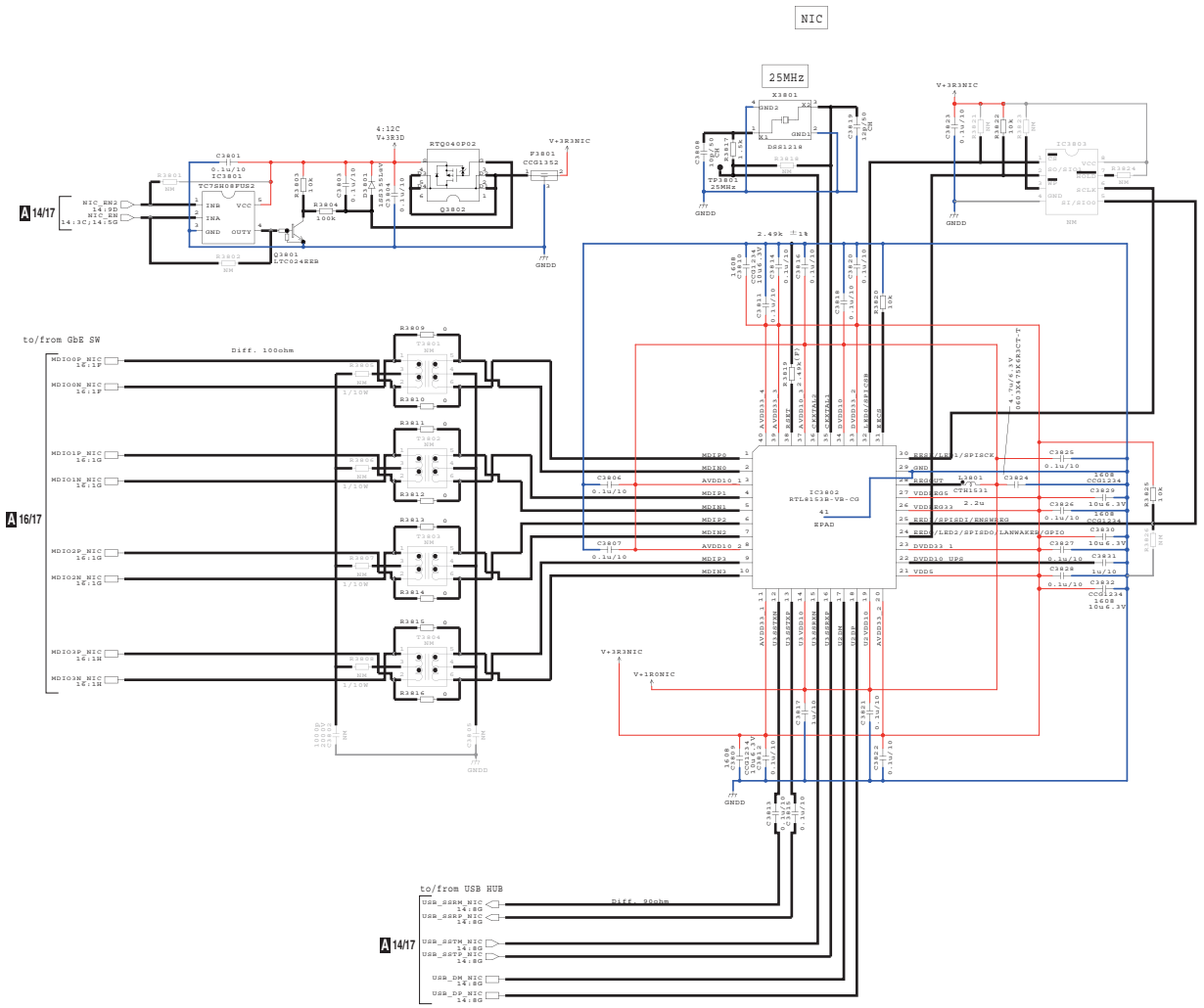


A 13/17



NOTES
NM : is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
F
RS1/16SS****D
D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**
CH

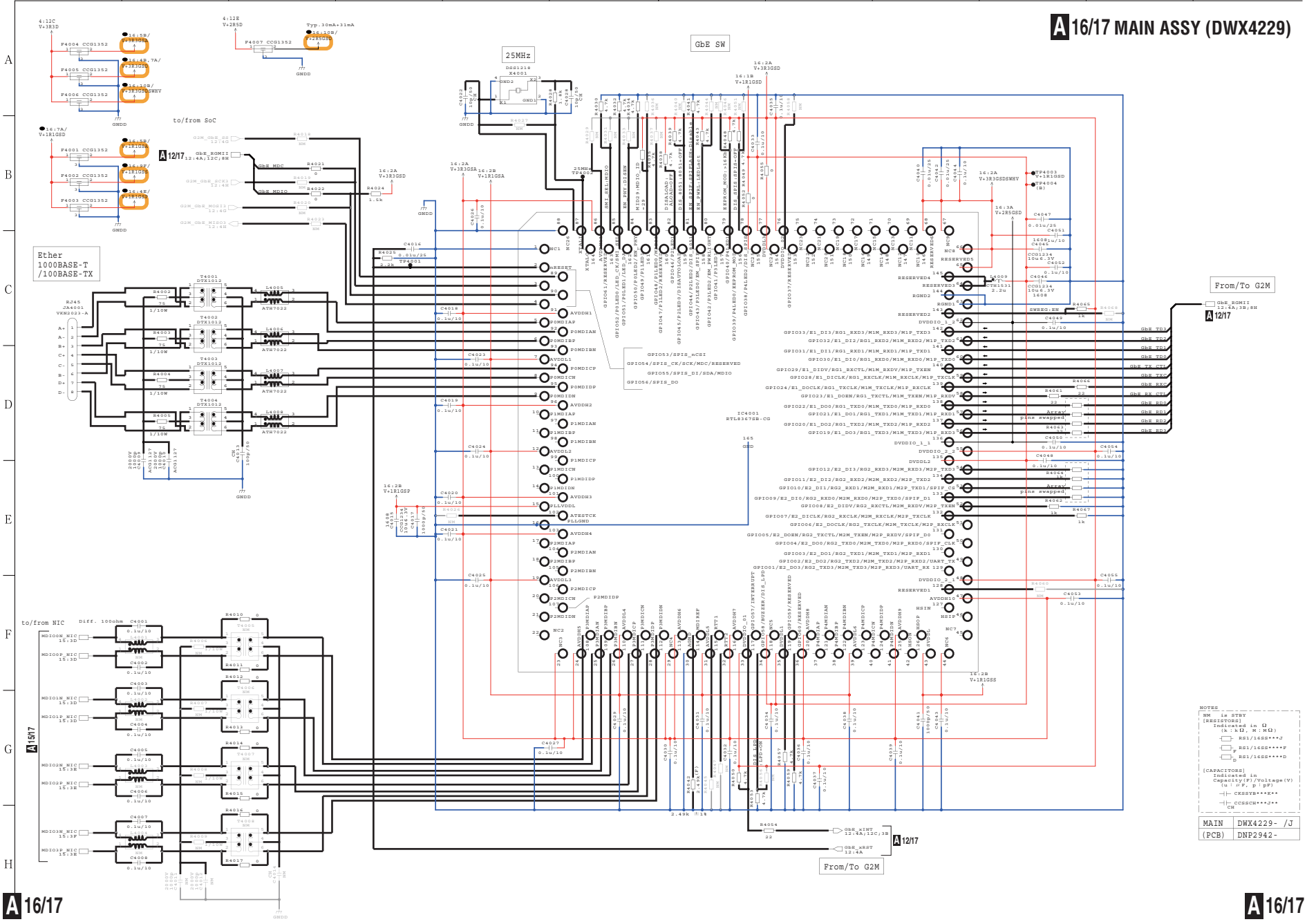
MAIN	DWX4229- /J
(PCB)	DNP2942-



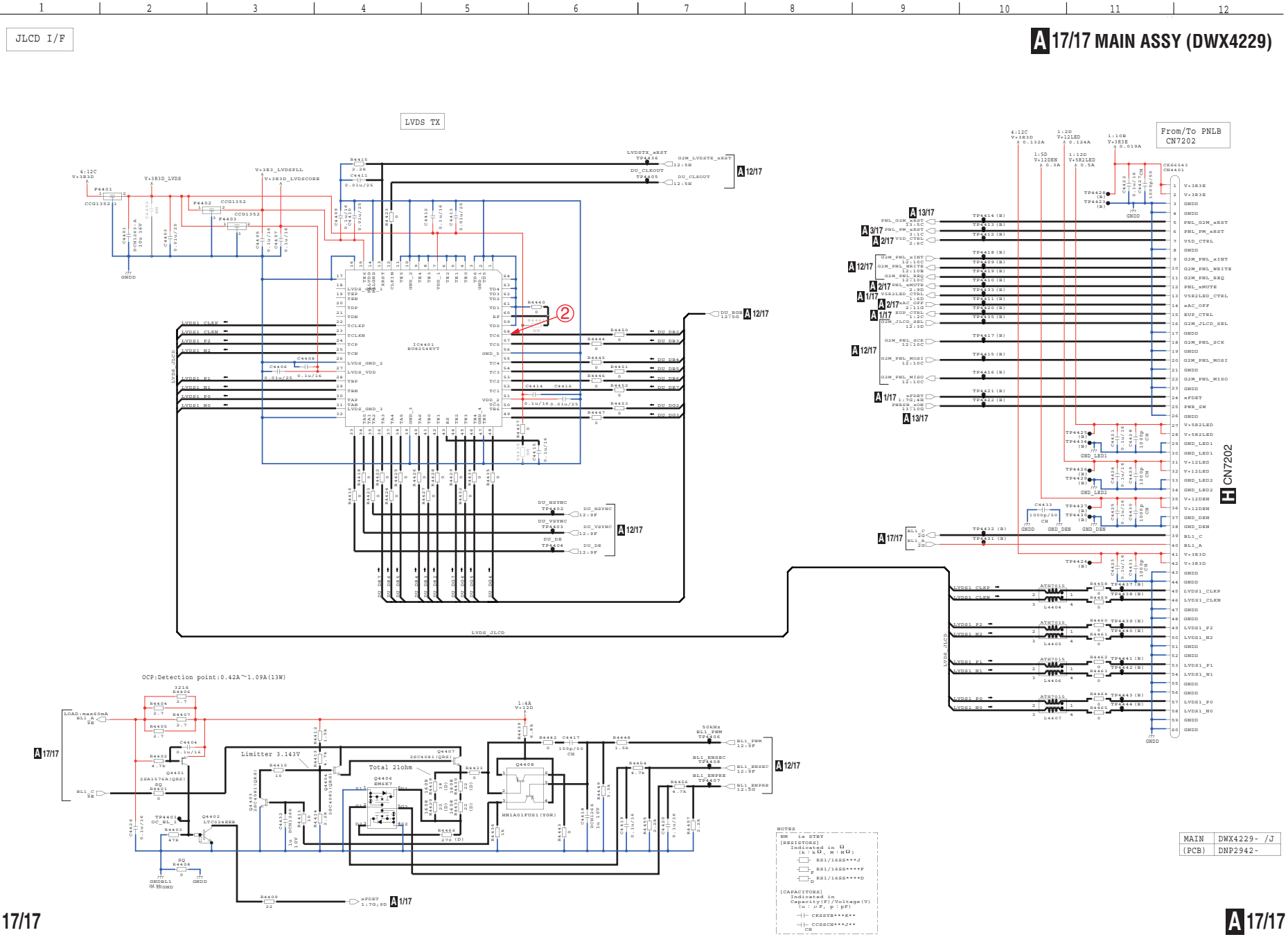
NOTES
NM is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS***F
RS1/16SS***D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**

MAIN	DWX4229- /J
(PCB)	DNP2942-

A 16/17 MAIN ASSY (DWX4229)

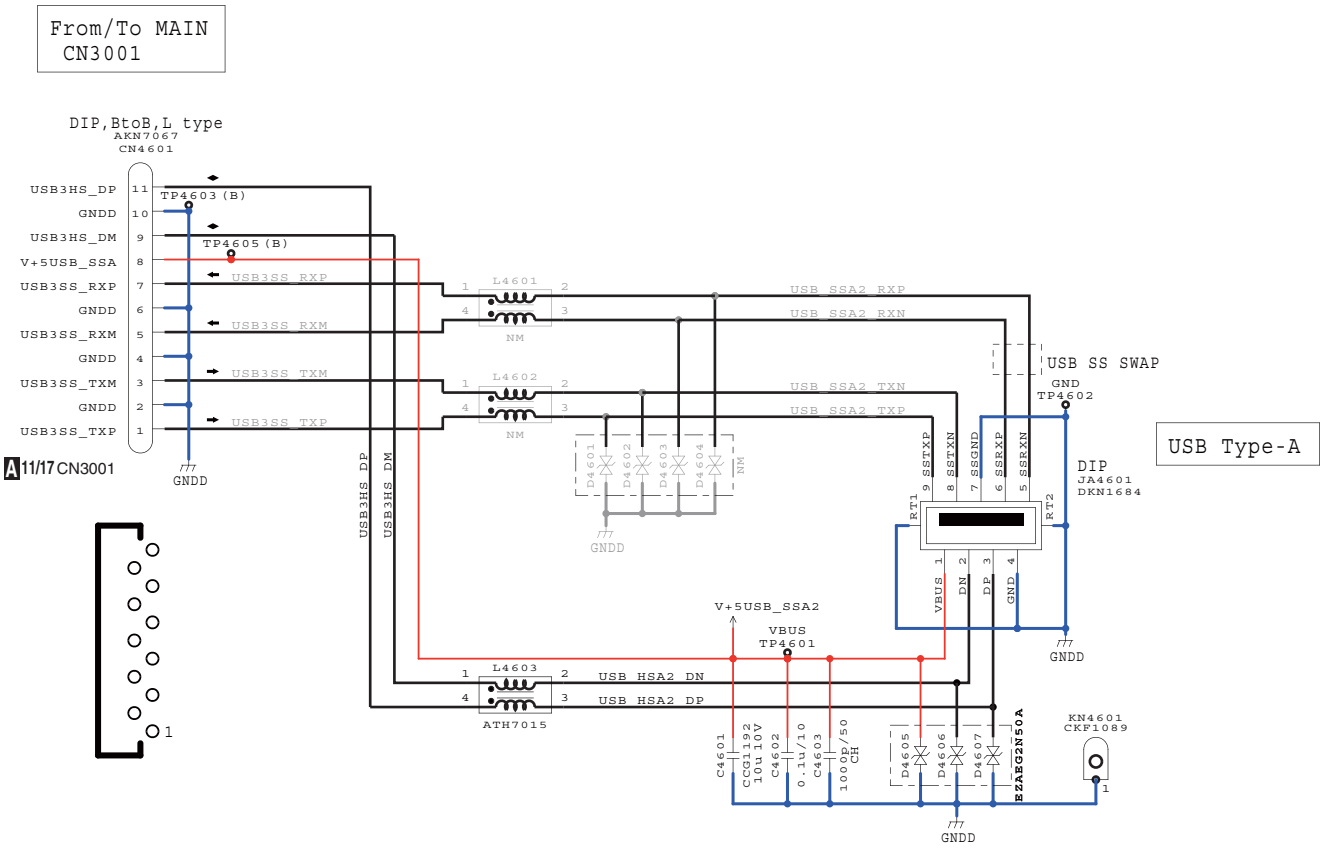


MAIN	DWX4229- /J
(PCB)	DNP2942-


JLCD I/F
LVDS TX
From/To PNLB CN7202
CN7202
OCP:Detection point:0.42A~1.09A(13W)
Limitter 3.143V
Total 21ohm
LVDS_JLCD
NOTES
MAIN | DWX4229- /J
(PCB) | DNP2942-

10.19 USBA ASSY

B USBA ASSY (DWX4230)



NOTES

NM is STBY

[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)

RS1/16SS***J

RS1/16SS****F

RS1/16SS****D

[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)

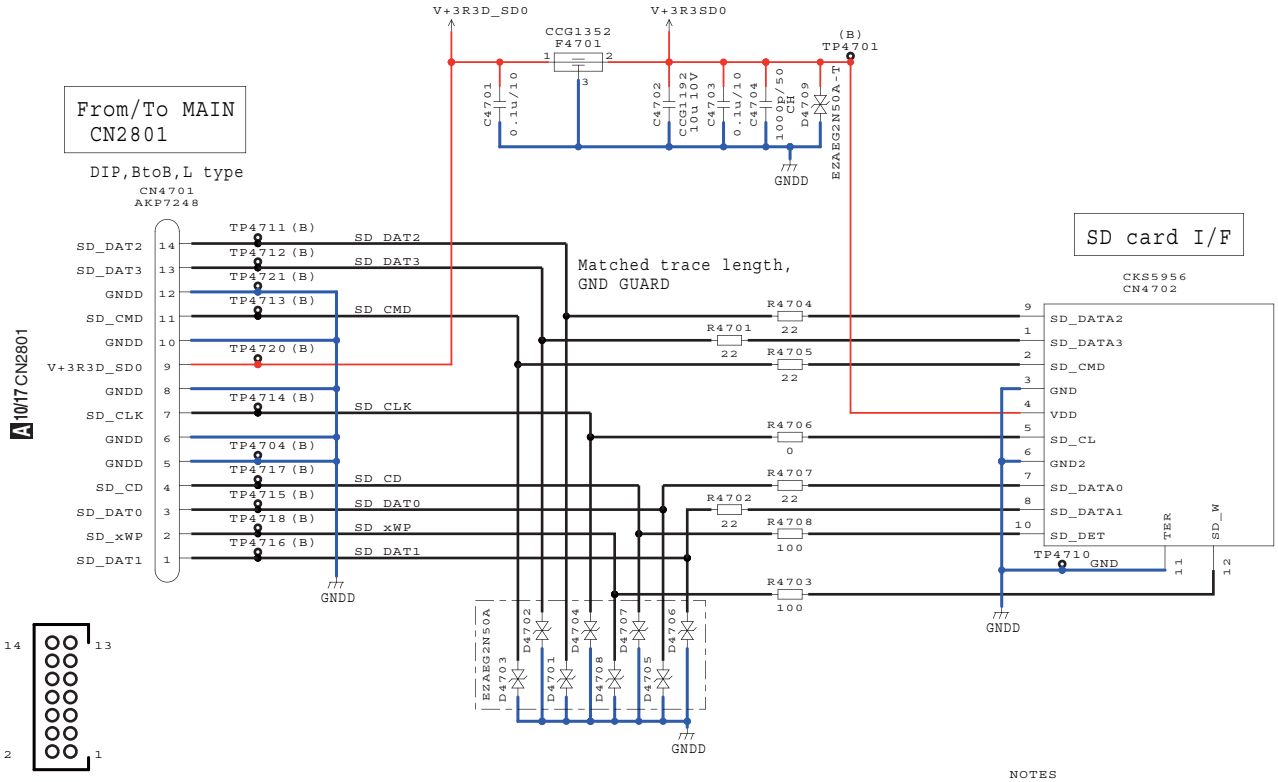
CKSSYB***K**

CCSSCH***J**
CH

DIFB	DWM2705- /J
USBA	DWX4230- /J
(PCB)	DNP2943-

10.20 SDCB ASSY

C SDCB ASSY (DWX4231)



NOTES

NM is STBY

[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)

RS1/16SS***J

RS1/16SS****F (F)

RS1/16SS****D (D)

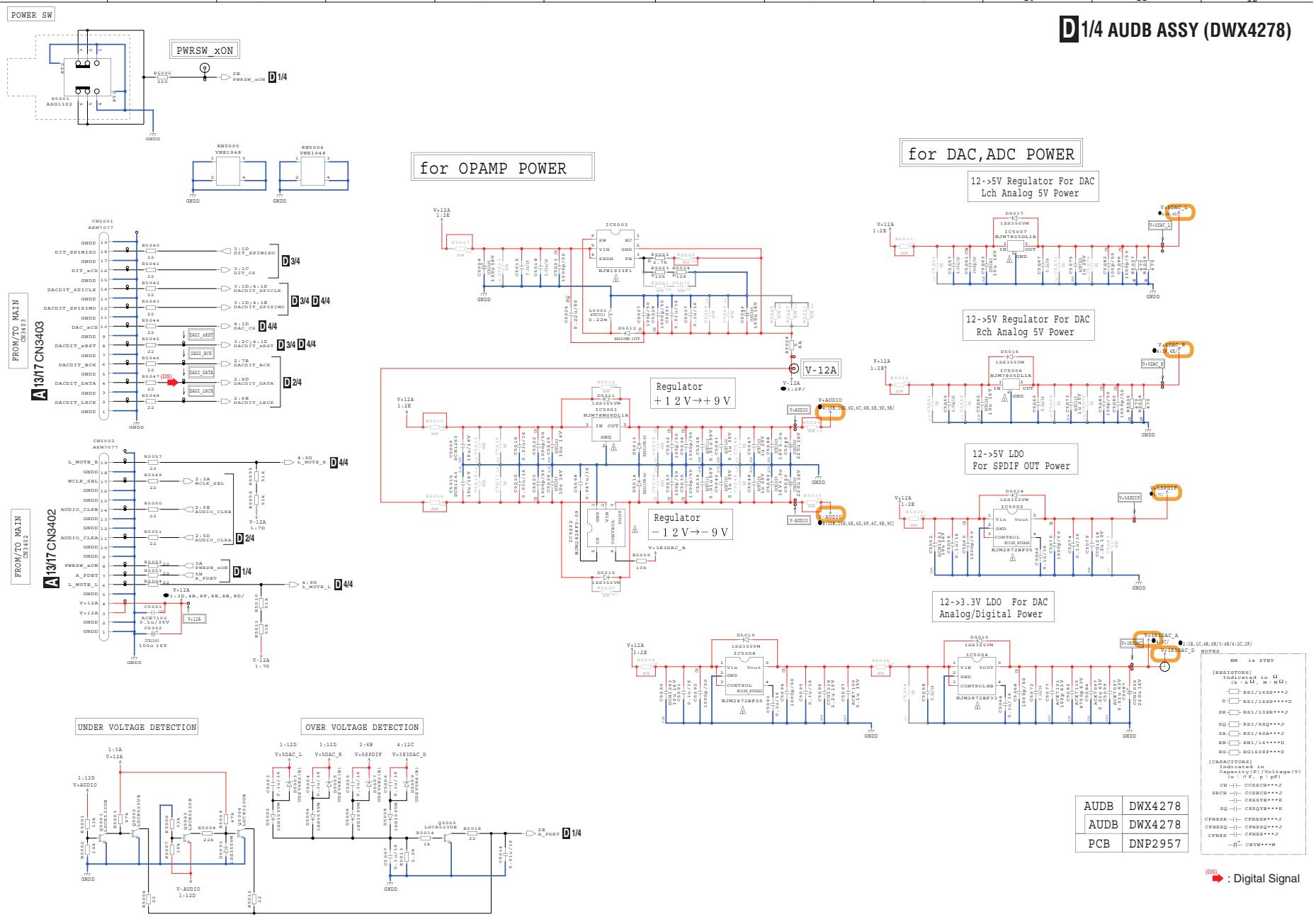
[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)

CKSSYB***K**

CCSSCH***J** (CH)

DIFB	DWM2705- /J
SDCB	DWX4231- /J
(PCB)	DNP2943-

D 1/4 AUDB ASSY (DWX4278)

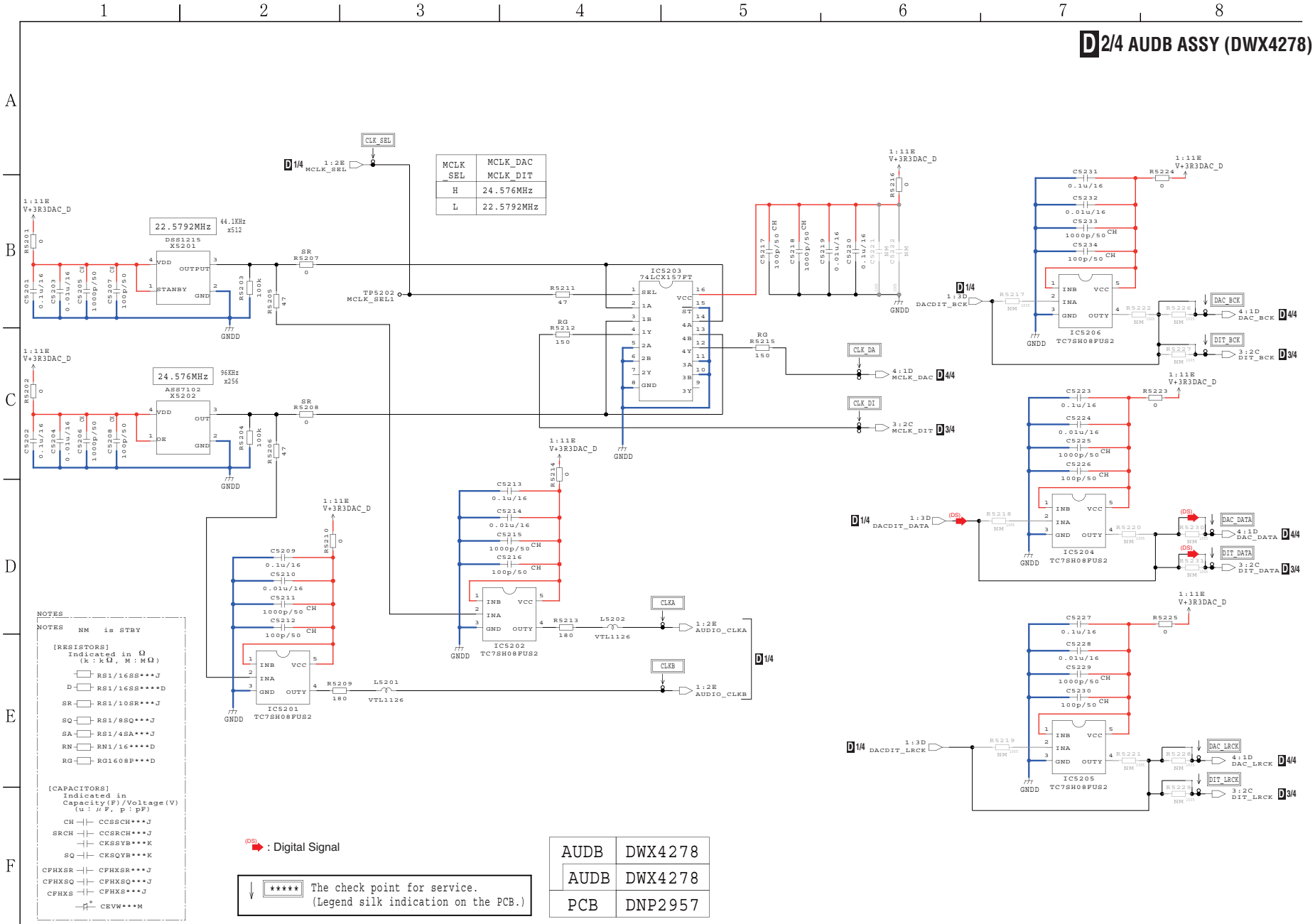


AUDB	DWX4278
AUDB	DWX4278
PCB	DNP2957

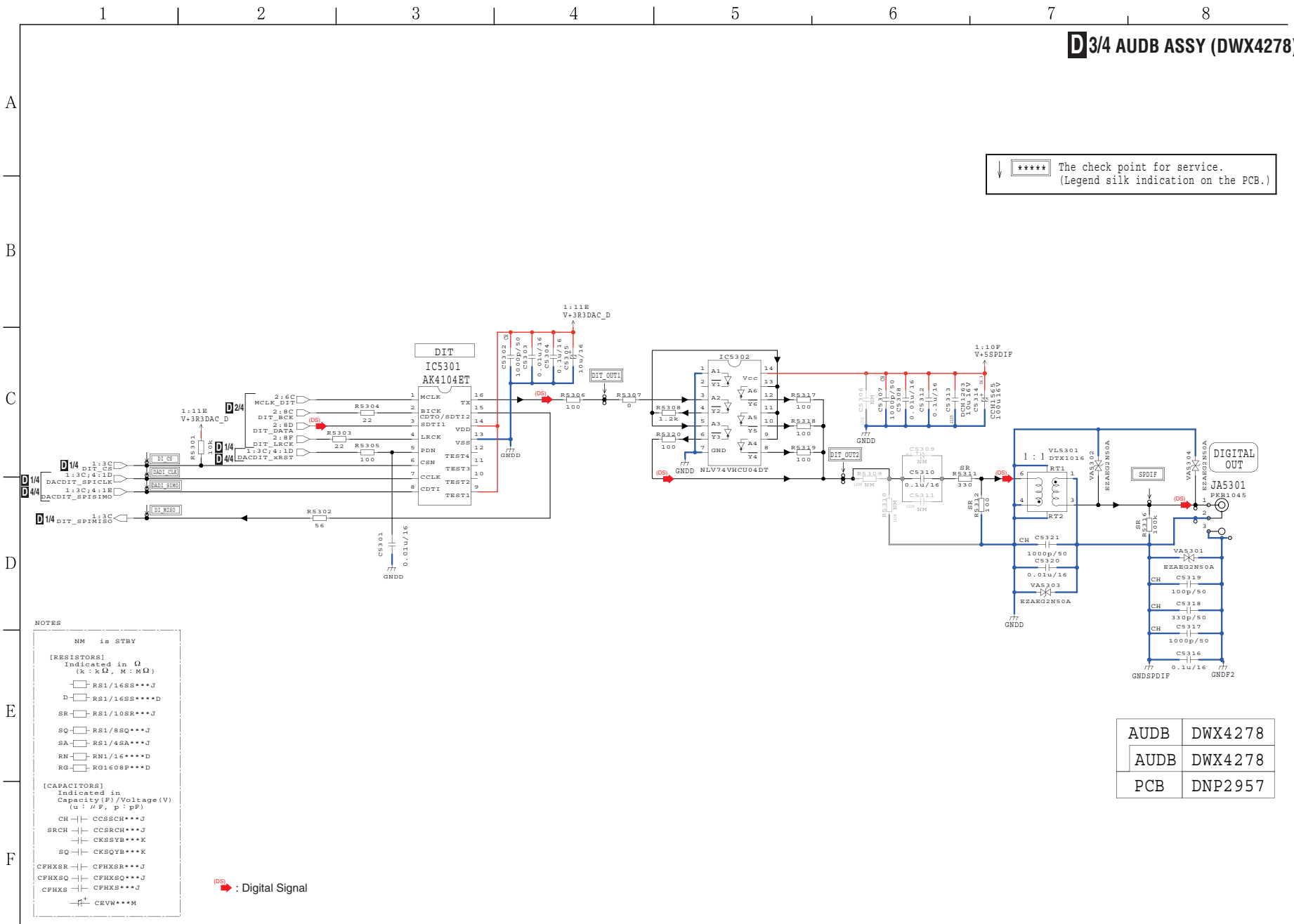
(DS) ➡ : Digital Signal

D 1/4

D 2/4 AUDB ASSY (DWX4278)



D 3/4 AUDB ASSY (DWX4278)

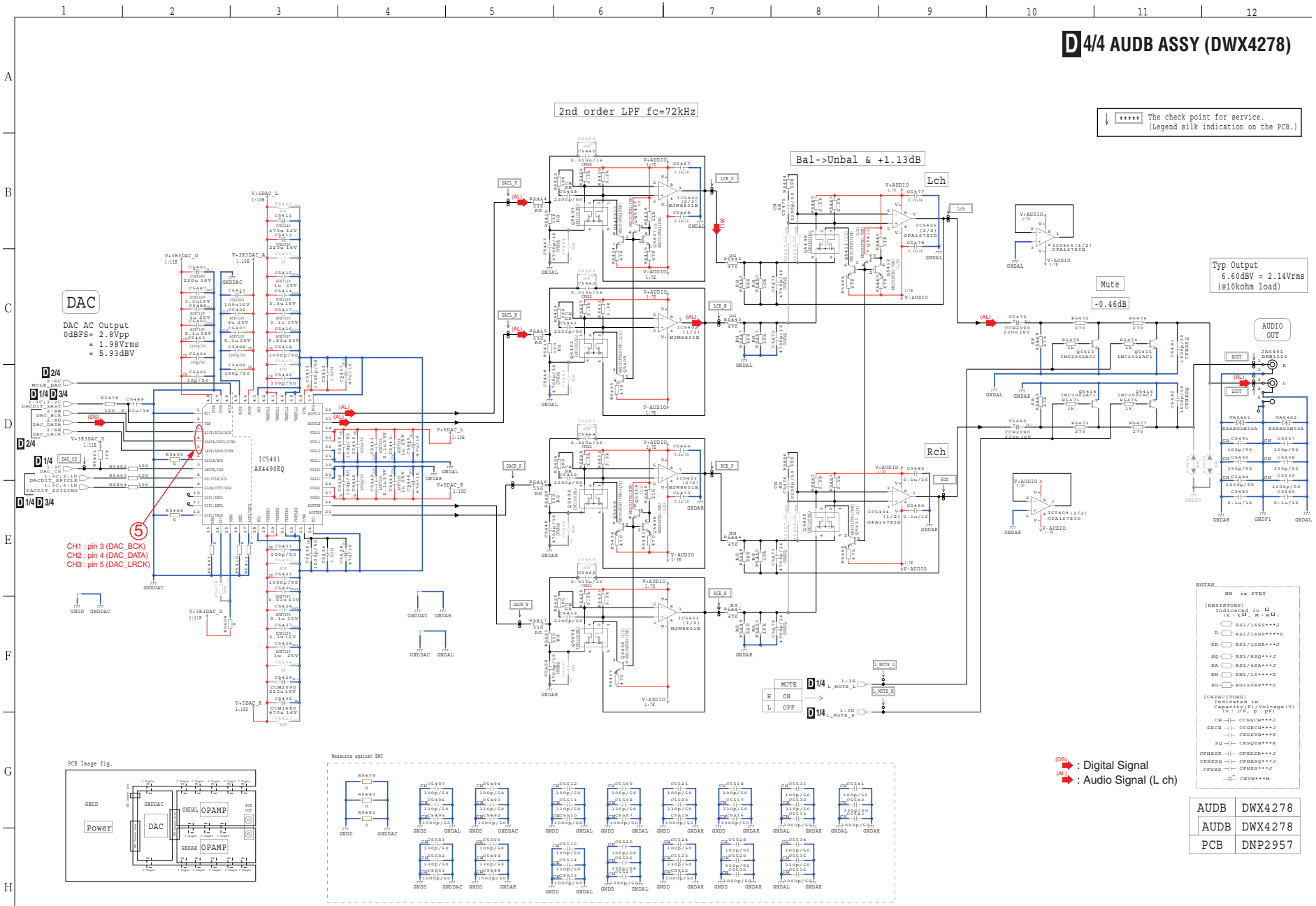


AUDB	DWX4278
AUDB	DWX4278
PCB	DNP2957

D 3/4

D 3/4

D 4/4 AUDB ASSY (DWX4278)



AUDB	DWX4278
AUDB	DWX4278
PCB	DNP2957

10.25 MLCB ASSY (1/2)

E 1/2 MLCB ASSY (DWX4281)

LCD I/F BLOCK

LCD BL Driver

From MAIN CN3002

TO LCD MODULE

TFT-LCD MODULE (DWX4227-)

MLCD	DWM2728- /J
MLCB	DWX4281- /J
(PCB)	DNP2971-

FUNCKEY BLOCK

FROM/TO TOUCHPANEL

TOUCH PANEL (DSX1145-)

E 2/2 MLCB ASSY (DWX4281)

CH1 : pin 1 (YT)
CH2 : pin 3 (YB)
CH3 : pin 2 (XR)
CH4 : pin 4 (XL)

From/To ILMB CN7500

G CN7500

From/To ENCB CN6401

F CN6401

From/To PNLB CN7205

H CN7205

MEDIA | BROWSE | TAG LIST | PLAY LIST | SEARCH | MENU

CLOUD | EUP

NOTES
NM is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/16SS****F
RS1/16SS****D
[CAPACITORS]
Indicated in
Capacity(P)/Voltage(V)
(u : μF, p : pF)
CKSSYB***K**
CCSSCH***J**

MLCD	DWM2728- /J
MLCB	DWX4281- /J
(PCB)	DNP2971-

10.27 ENCB ASSY

NOTES

NM is STBY

[RESISTORS]

Indicated in Ω

(k : kΩ, M : MΩ)

RS1/16SS***J

RS1/16SS****F

RS1/16SS****D

[CAPACITORS]

Indicated in

Capacity(F)/Voltage(V)

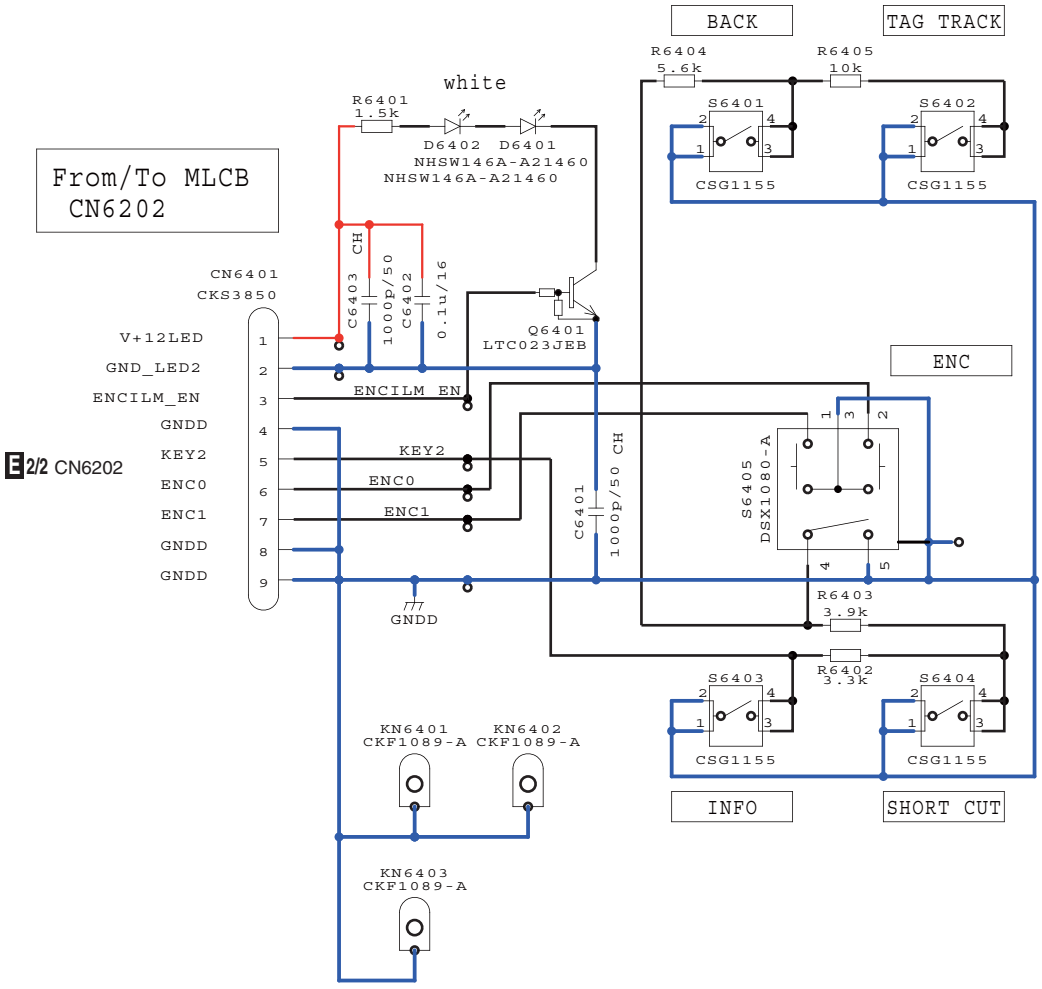
(u : μF, p : pF)

CKSSYB***K**

CCSSCH***J**

CH

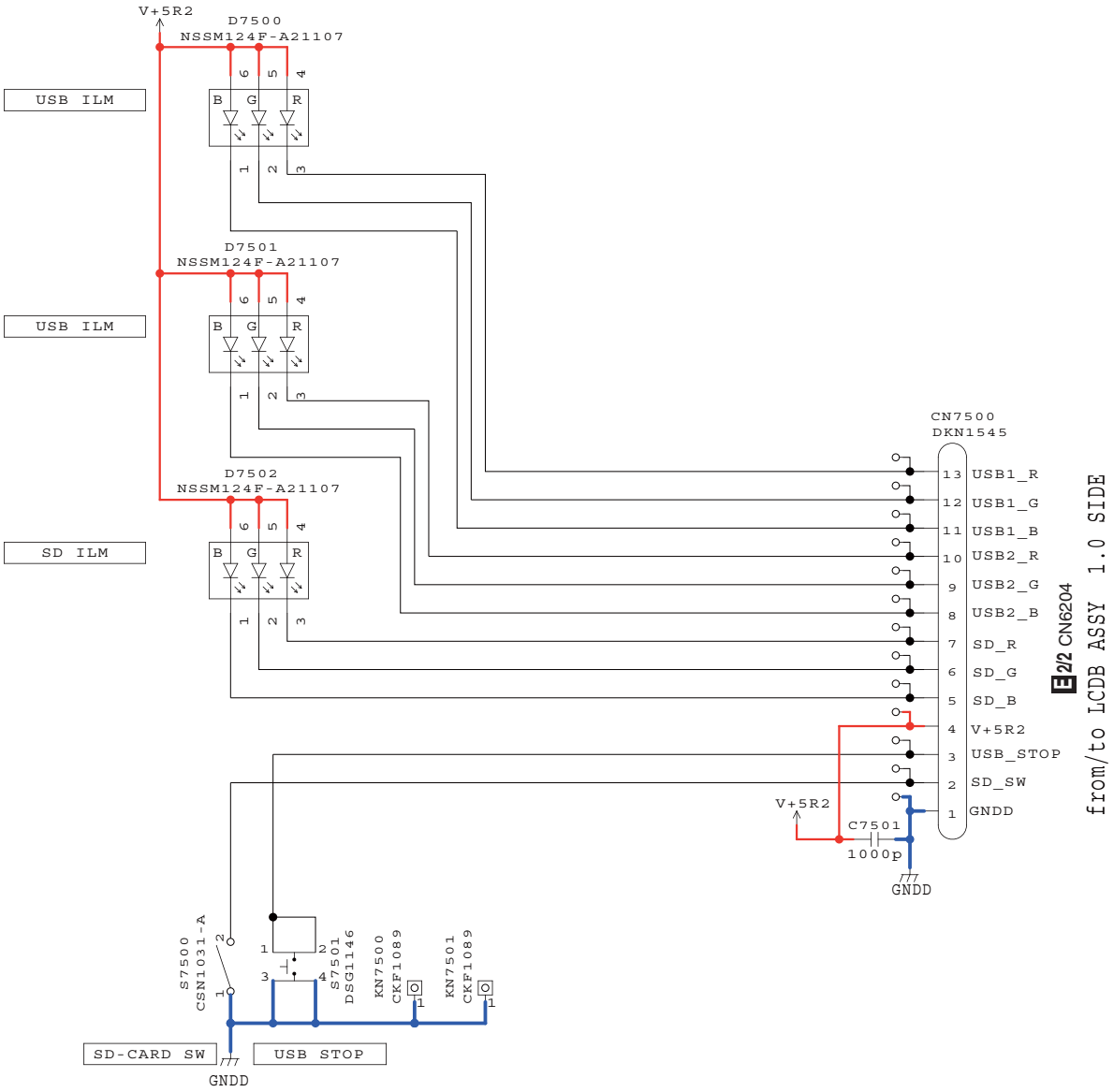
F ENCB ASSY (DWX4326)



MLCD	DWM2728- /J
ENCB	DWX4326- /J
(PCB)	DNP2971-

10.28 ILMB ASSY

G ILMB ASSY (DWX4257)

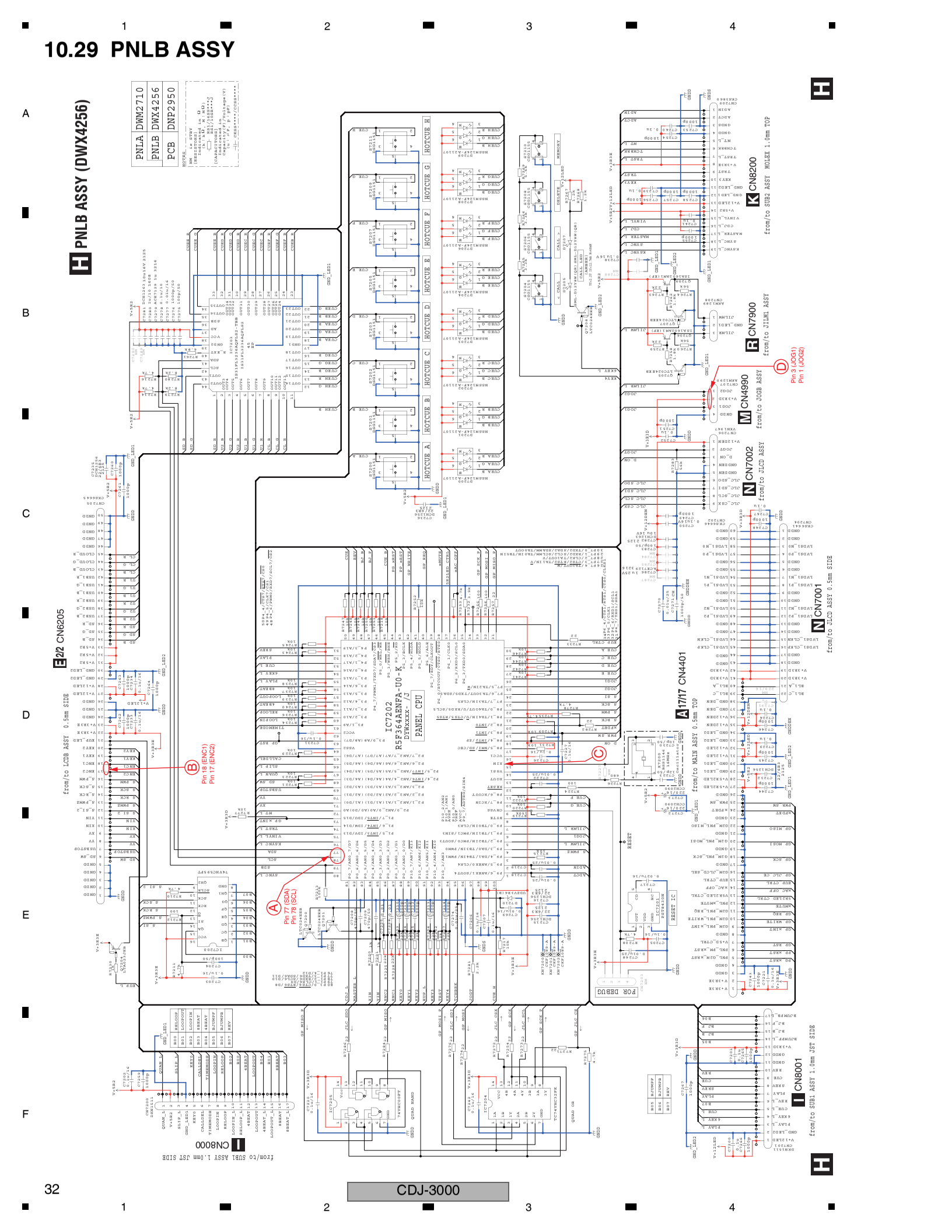


NOTES

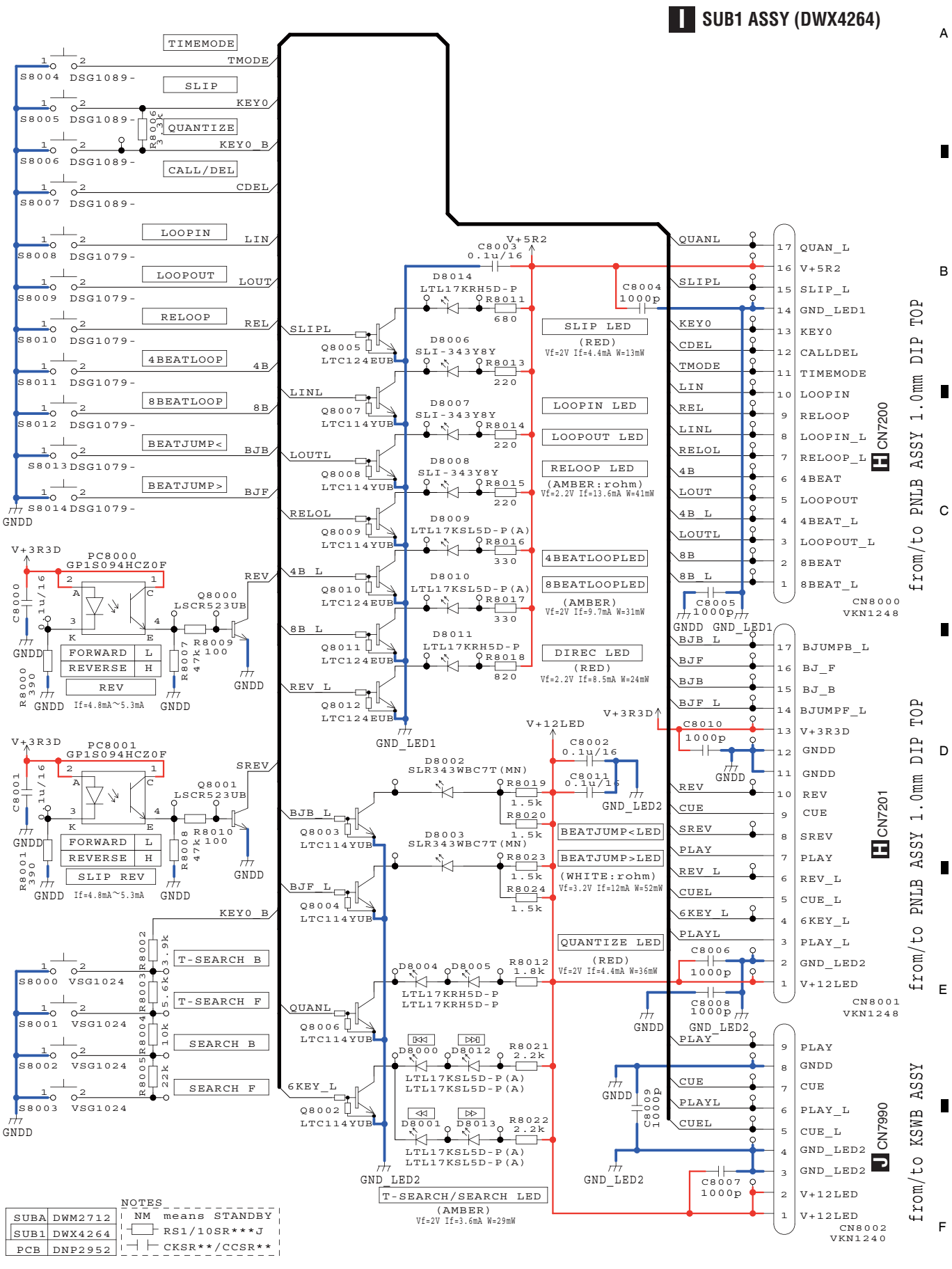
NM is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/10SR***J
[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)
CKSS****/CCSS****

PNLA	DWM2710
ILMB	DWX4257
PCB	DNP2950

10.29 PNLB ASSY

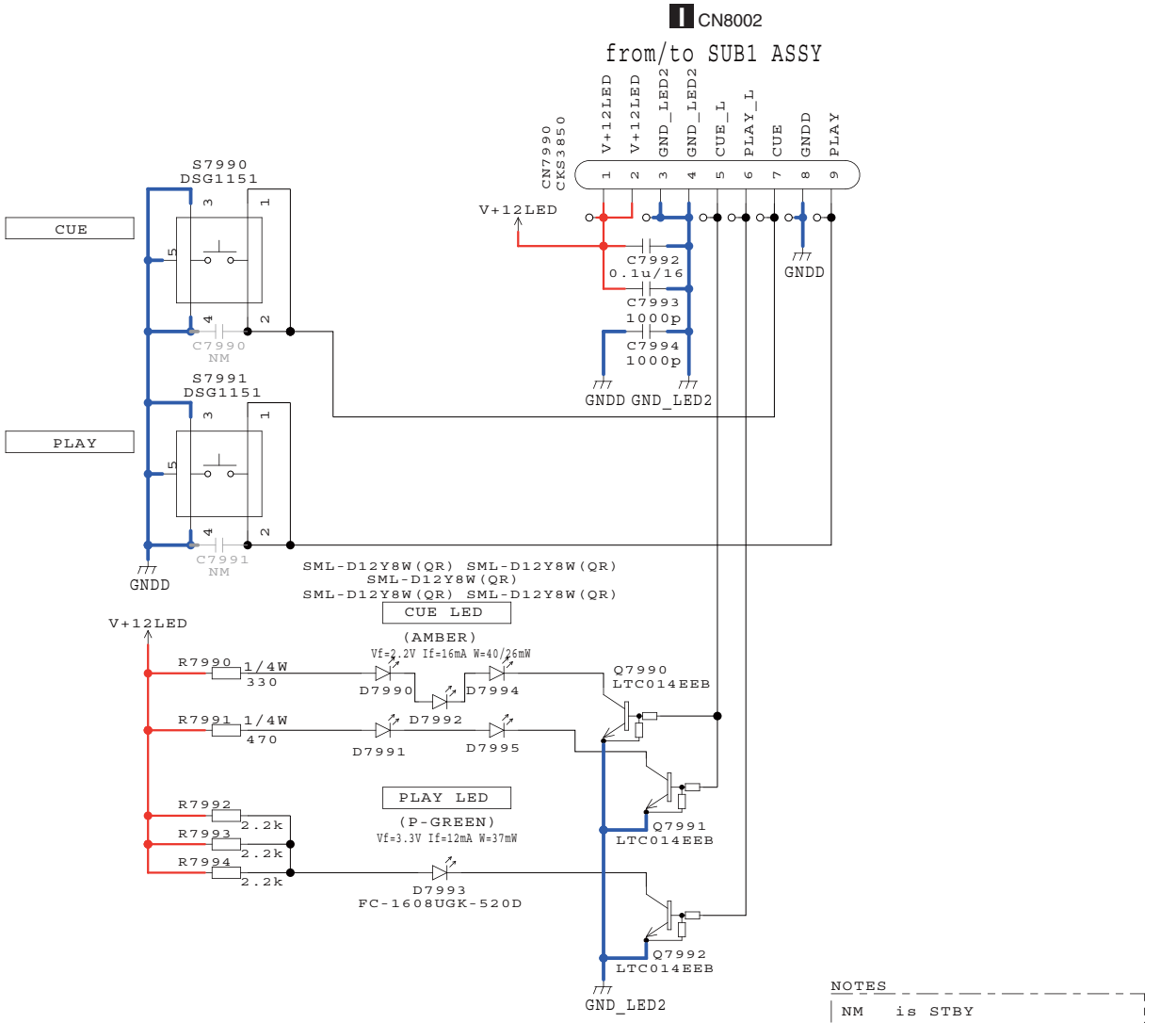


10.30 SUB1 ASSY



10.31 KSWB ASSY

J KSWB ASSY (DWX4268)



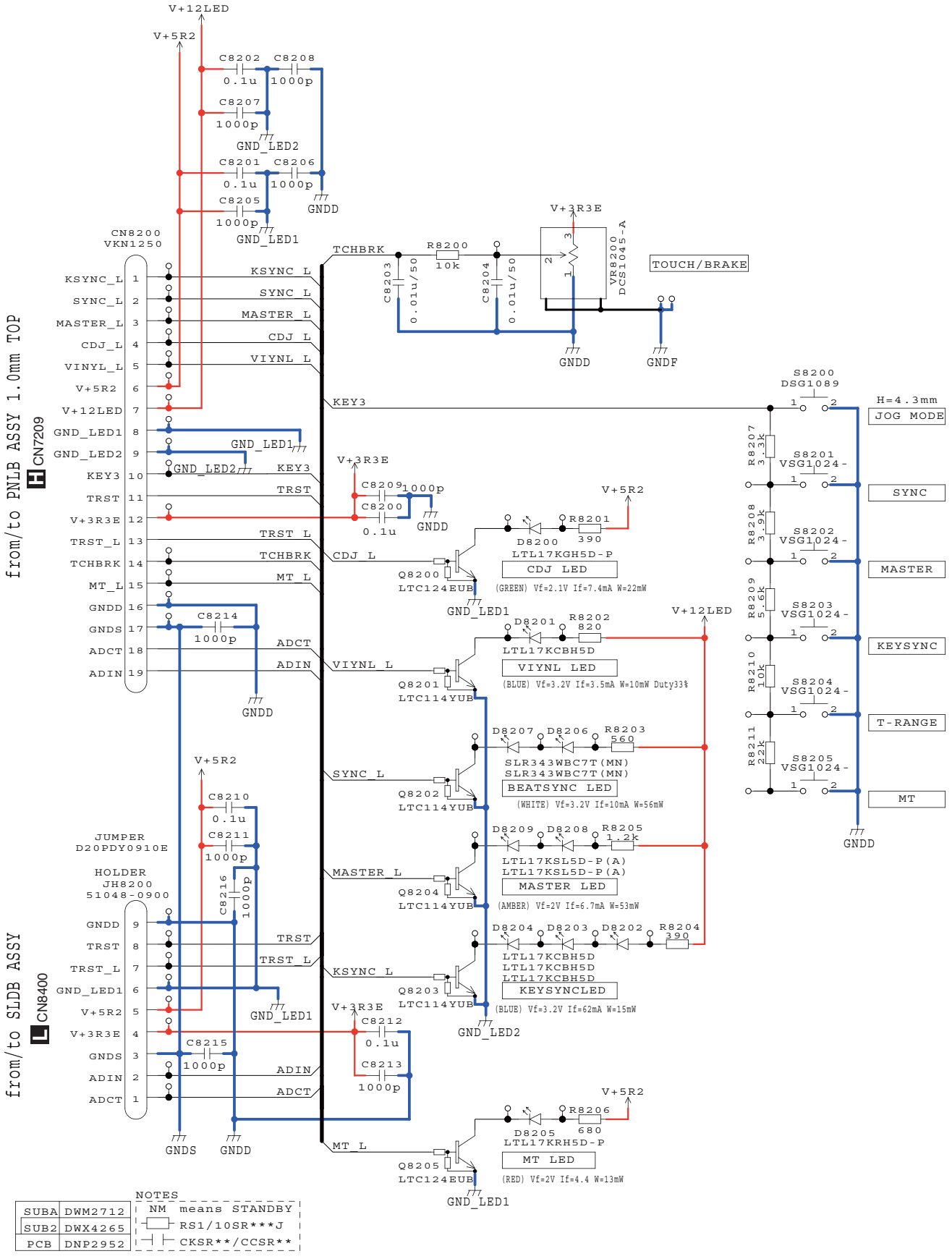
NOTES

NM is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/10SR***J
[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)
CKSS****/CCSS****

PNLA	DWM2710
KSWB	DWX4268
PCB	DNP2950

10.32 SUB2 ASSY

K SUB2 ASSY (DWX4265)



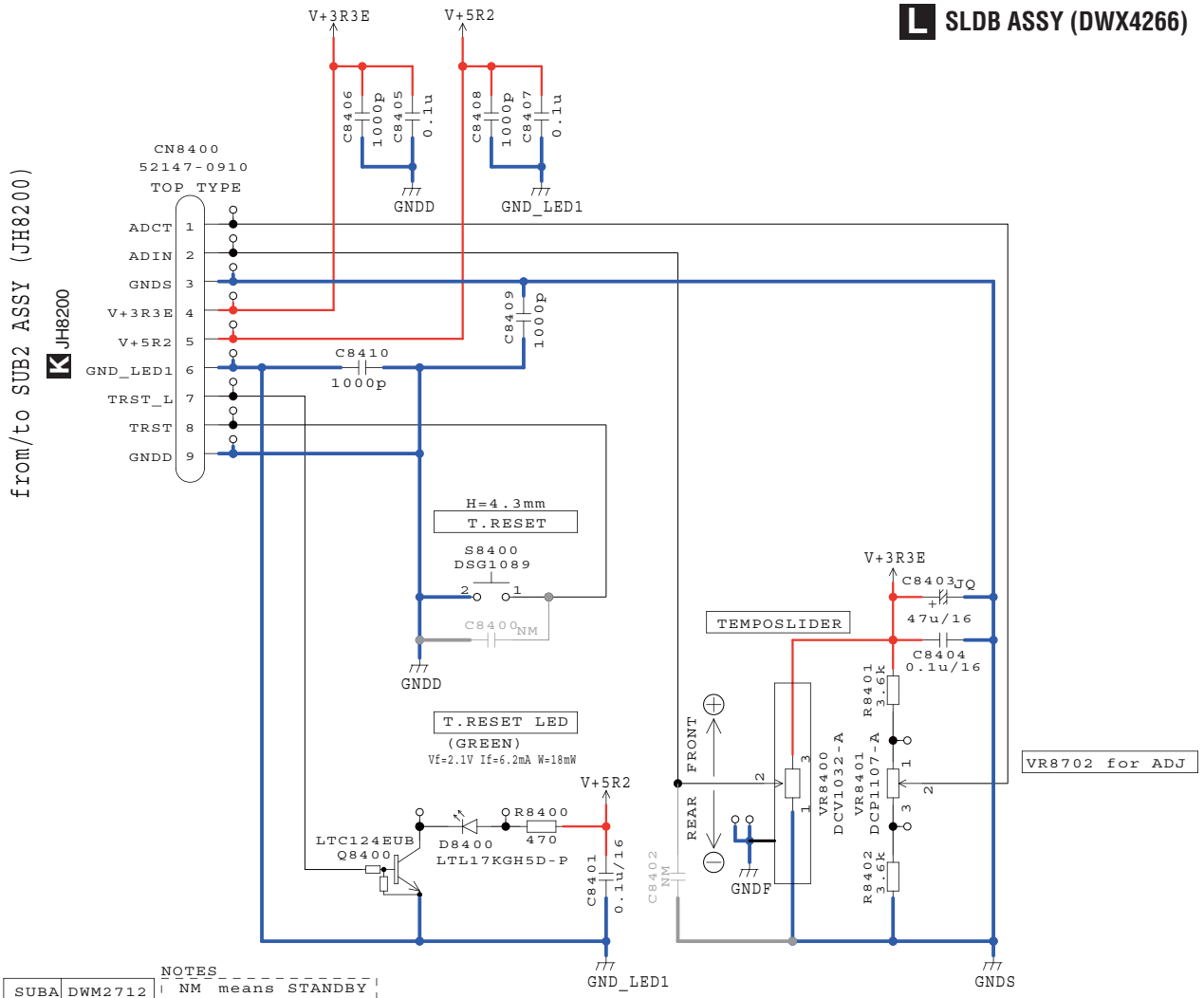
NOTES

NM means STANDBY
RS1/10SR***J
CKSR**/CCSR**

SUBA	DWM2712
SUB2	DWX4265
PCB	DNP2952

10.33 SLDB and JOGB ASSYS

L SLDB ASSY (DWX4266)



NOTES

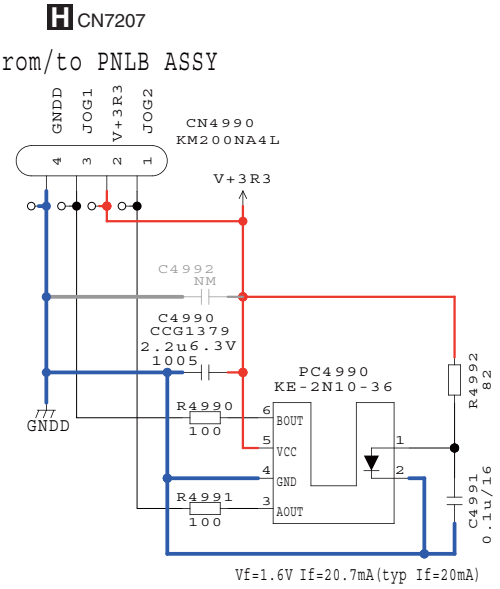
NM means STANDBY

RS1/10SR***J

CKSR**/CCSR**

SUBA	DWM2712
SLDB	DWX4266
PCB	DNP2952

M JOGB ASSY (DWX4270)



NOTES

NM is STBY

[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)

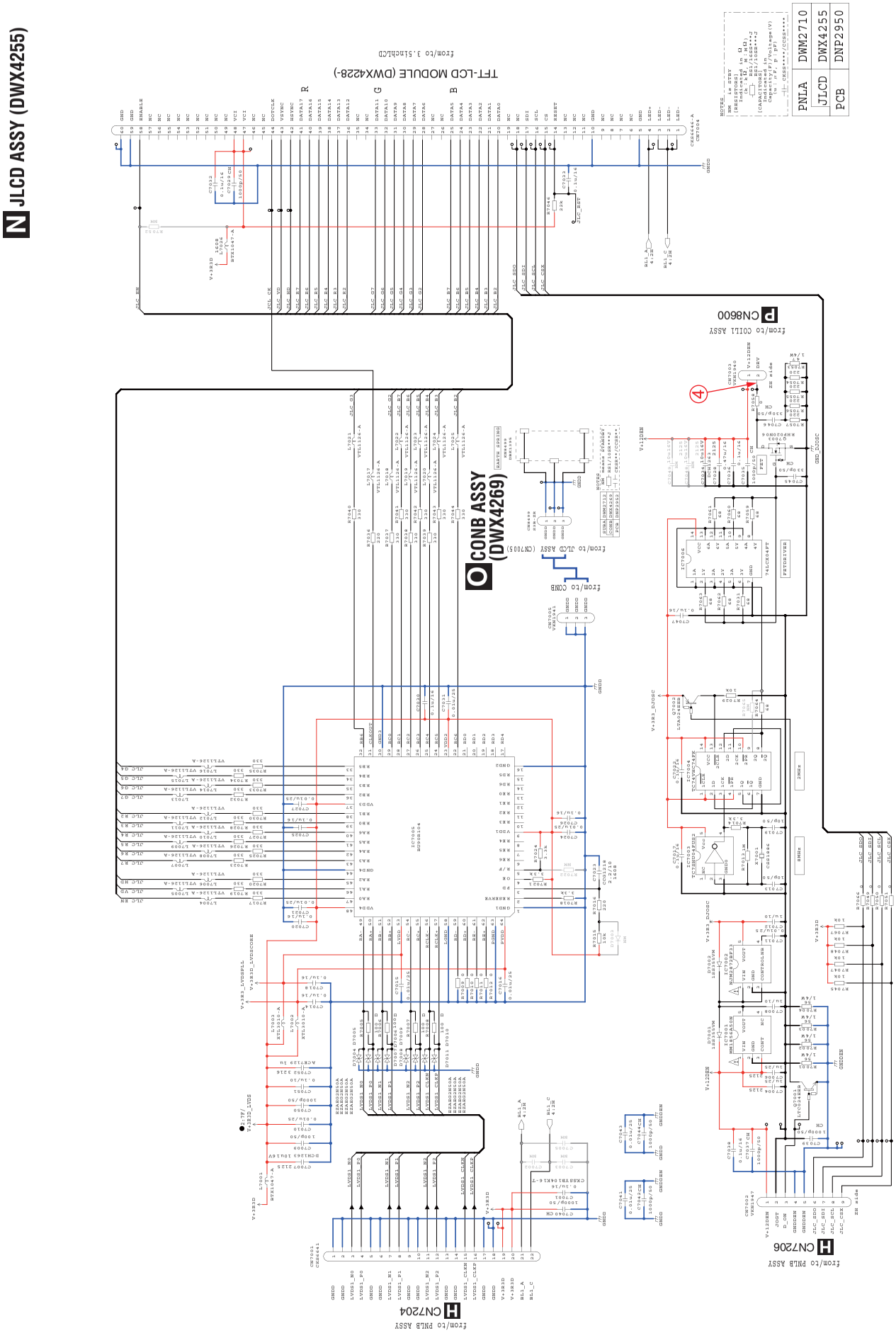
RS1/16SS***J

[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)

CKSS****/CCSS****

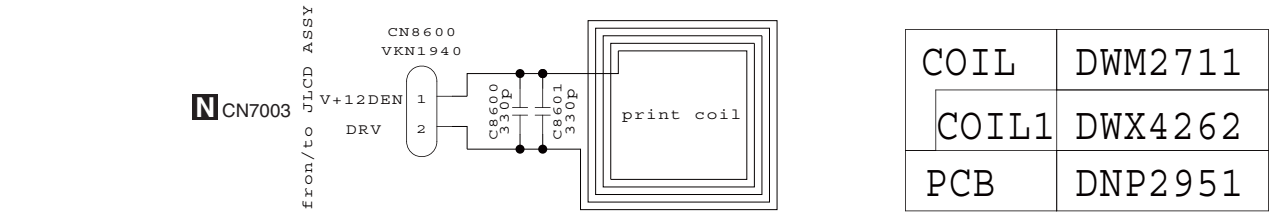
COIL	DWM2711
JOGB	DWX4270
PCB	DNP2951

10.34 JLCD and CONB ASSYS



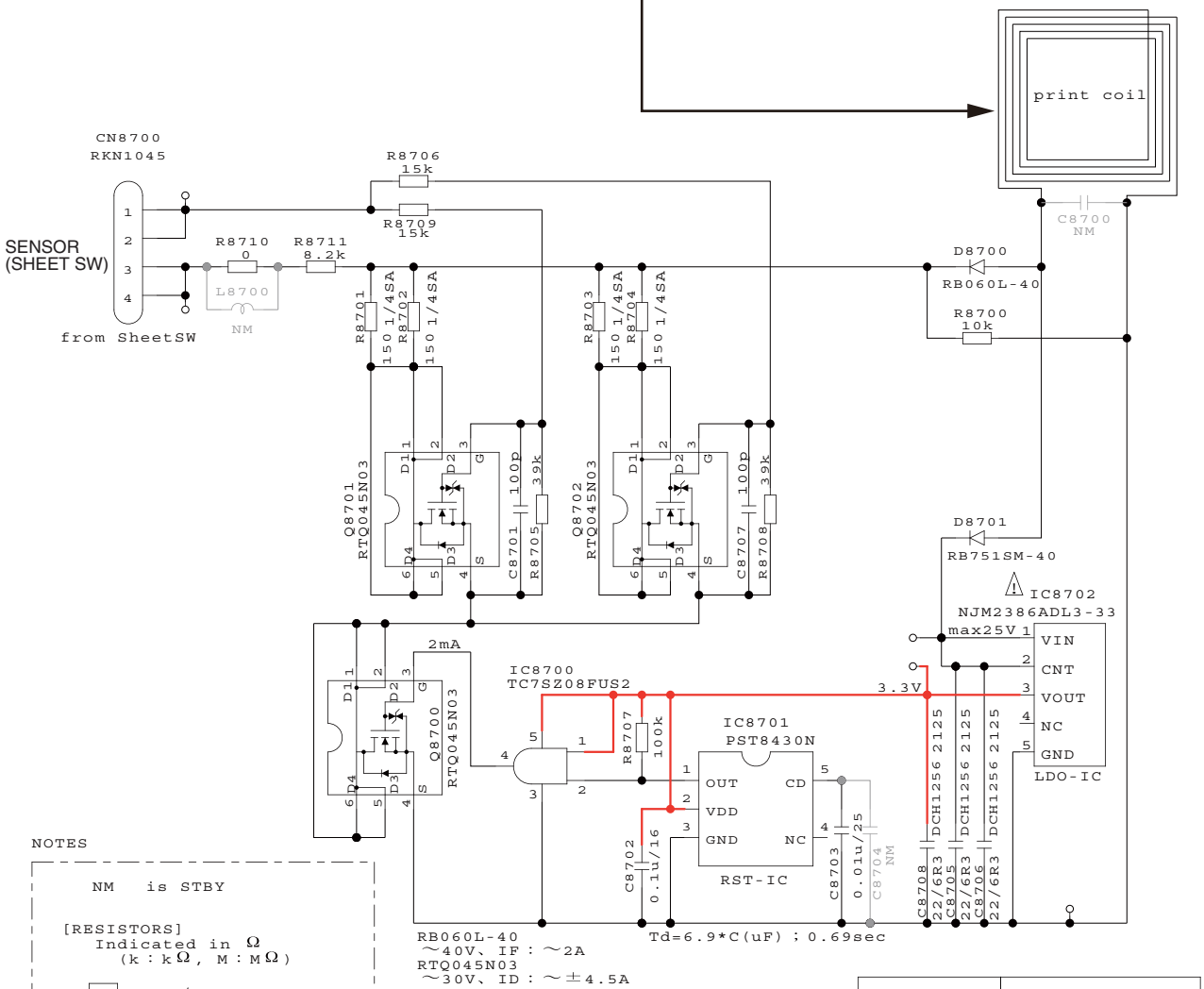
10.35 COIL1 and COIL2 ASSYS

P COIL1 ASSY (DWX4262)



COIL	DWM2711
COIL1	DWX4262
PCB	DNP2951

Q COIL2 ASSY (DWX4263)



NOTES

NM is STBY

[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)

RS1/16SS***J

[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)

CKSS****/CCSS****

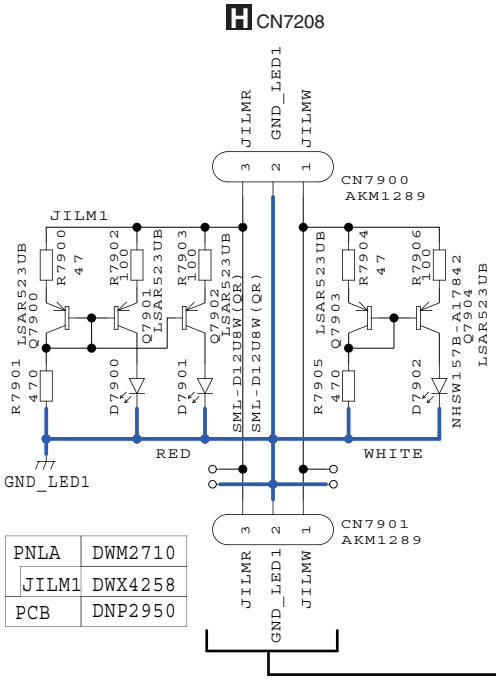
COIL	DWM2711
COIL2	DWX4263
PCB	DNP2951

P **Q**

P **Q**

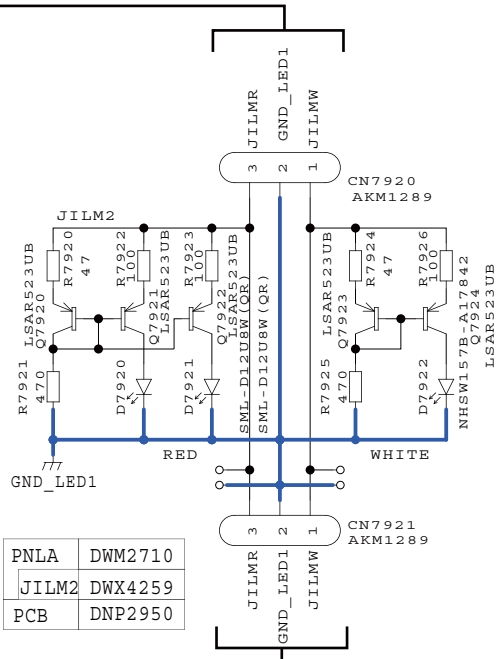
10.36 JILM1, JILM2, JILM3 and JILM4 ASSYS

R JILM1 ASSY (DWX4258)



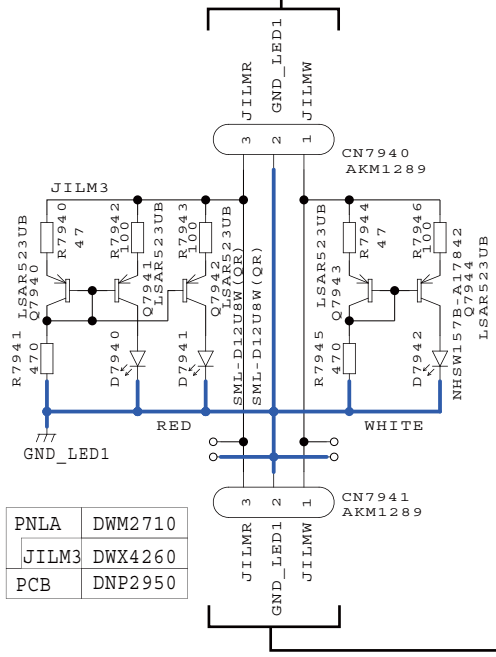
PNLA	DWM2710
JILM1	DWX4258
PCB	DNP2950

S JILM2 ASSY (DWX4259)



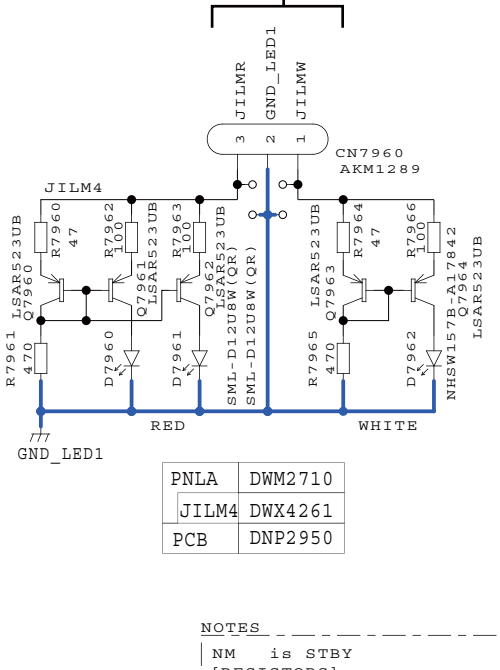
PNLA	DWM2710
JILM2	DWX4259
PCB	DNP2950

T JILM3 ASSY (DWX4260)



PNLA	DWM2710
JILM3	DWX4260
PCB	DNP2950

U JILM4 ASSY (DWX4261)



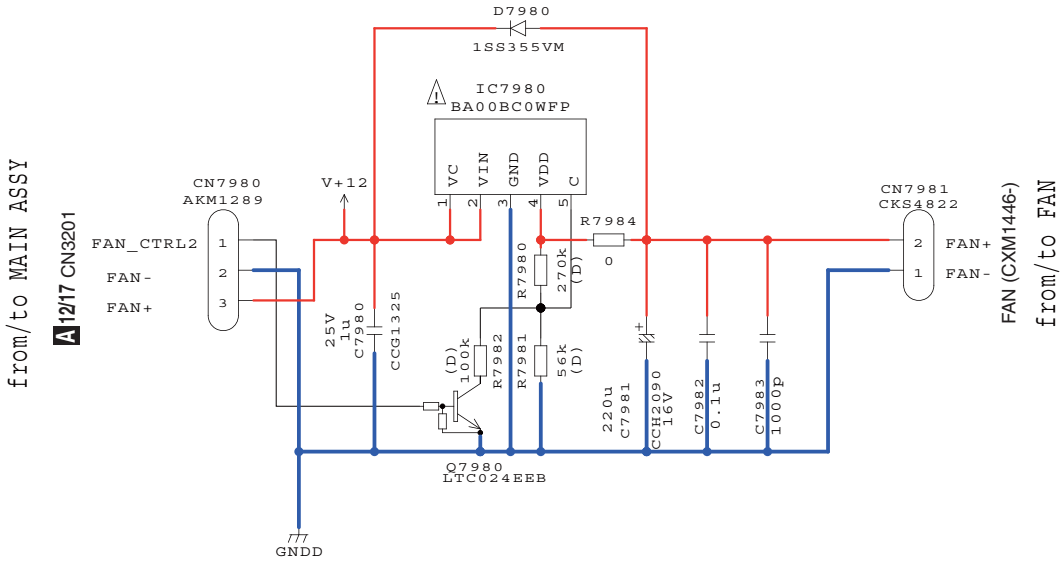
PNLA	DWM2710
JILM4	DWX4261
PCB	DNP2950

NOTES

NM is STBY
[RESISTORS]
Indicated in Ω
(k : kΩ, M : MΩ)
RS1/16SS***J
RS1/10SR***J
[CAPACITORS]
Indicated in
Capacity(F)/Voltage(V)
(u : μF, p : pF)
CKSS****/CCSS****

10.37 FANB ASSY

V FANB ASSY (DWX4267)



NOTES

NM is STBY

[RESISTORS]

Indicated in Ω

(k : kΩ, M : MΩ)

RS1/16SS***J

RS1/10SR***J

[CAPACITORS]

Indicated in

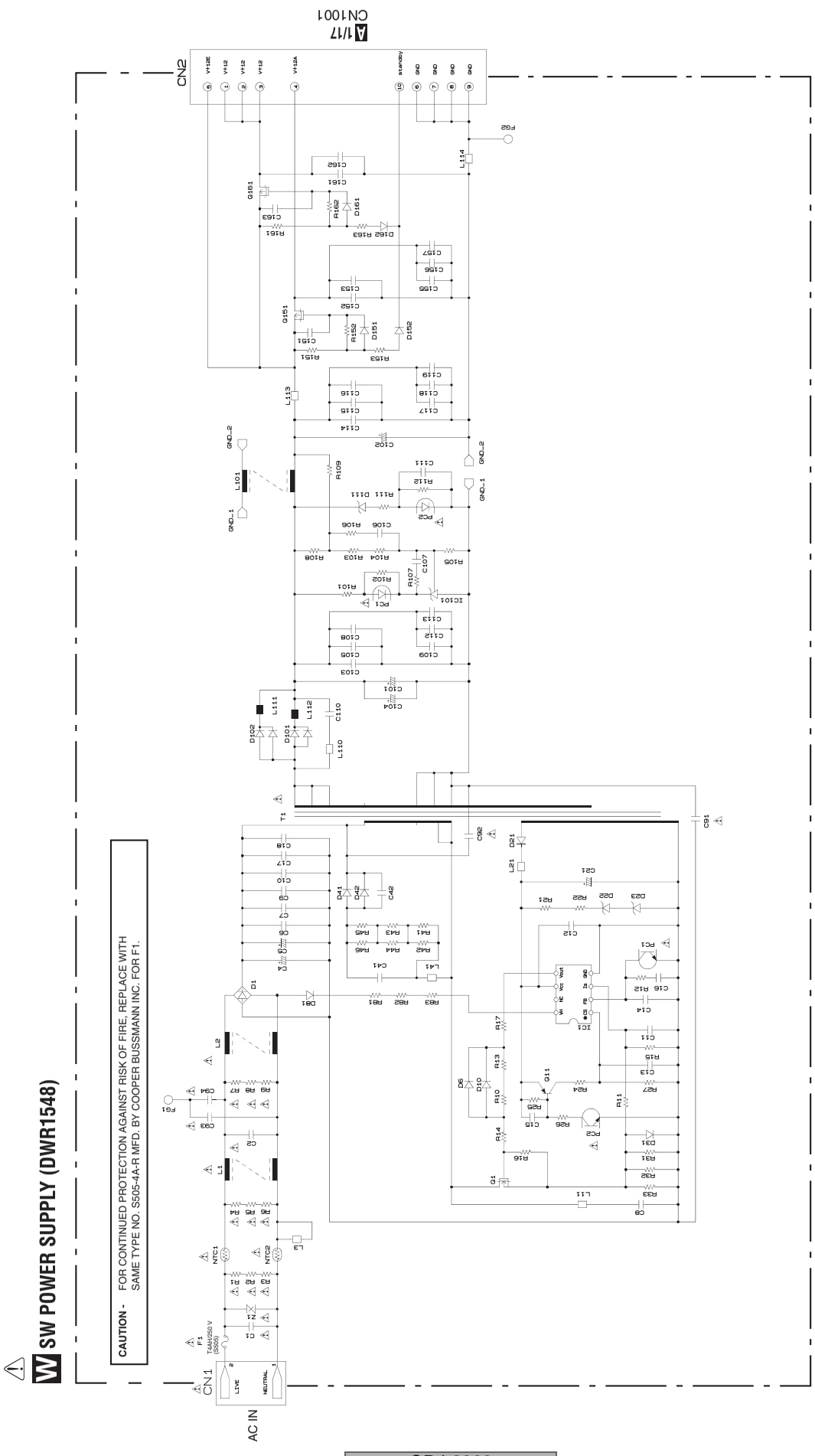
Capacity(F)/Voltage(V)

(u : μF, p : pF)

CKSS****/CCSS****

PNLA	DWM2710
FANB	DWX4267
PCB	DNP2950

10.38 SW POWER SUPPLY



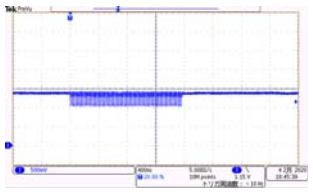
10.39 WAVEFORMS

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

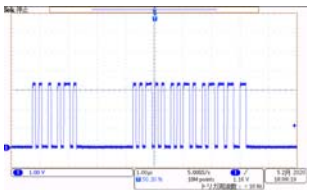
注意: ◯で囲まれた数字は回路図及びPCB図の各測定ポイントの番号を示します.

A MAIN ASSY

1 **CN3002 - pin 4 (LVDS0_N3)**
V: 500 mV/div. H: 400 ns/div.

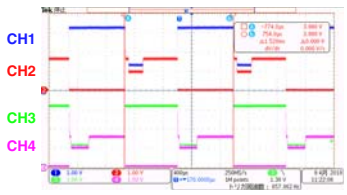


2 **IC4401 - pin 58 (DU_DB2)**
V: 1 V/div. H: 1 µs/div.



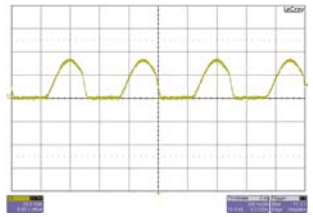
E MLCB ASSY

3 Screen center is in a touched state
CH1 : CN6209 - pin 1 (YT)
CH2 : CN6209 - pin 2 (YB)
CH3 : CN6209 - pin 3 (XR)
CH4 : CN6209 - pin 4 (XL)
V: 1 V/div. H: 400 µs/div.



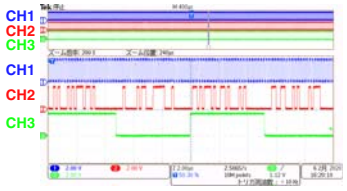
N JLCD ASSY

4 **CN7003 - pin 2 (DRV)**
V: 20 V/div. H: 200 ns/div.



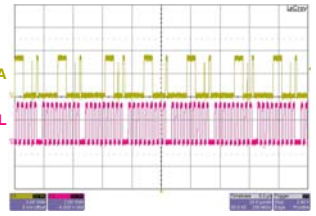
D AUDB ASSY

5 **CH1 : IC5401 - pin 3 (DAC_BCK)**
CH2 : IC5401 - pin 4 (DAC_DATA)
CH3 : IC5401 - pin 5 (DAC_LRCK)
V: 2 V/div. H: 2 µs/div.



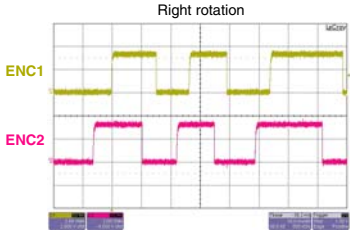
H PNLB ASSY

A Control signal of PANEL UCOM to LED driver
IC7202 - pin 77 (SDA)
IC7202 - pin 78 (SCL)
V: 2 V/div. H: 20 µs/div.

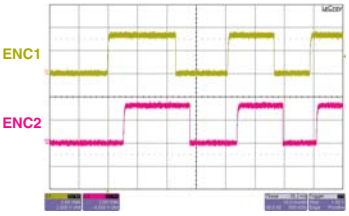


B Rotary ecoder
CN7205 - pin 18 (ENC1)
CN7205 - pin 17 (ENC2)
V: 2 V/div. H: 10 ms/div.

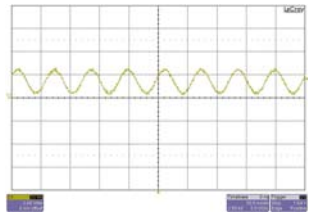
Right rotation



Left rotation

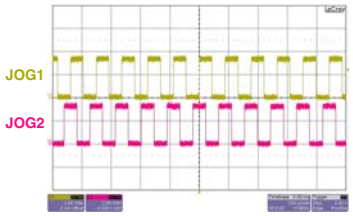


C Clock of PANEL UCOM
IC7202 - pin 15 (XIN)
V: 2 V/div. H: 50 ns/div.

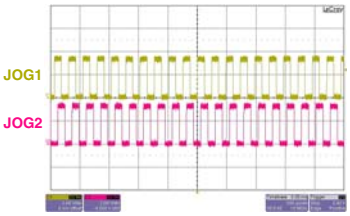


D Photointerrupter
CN7207 - pin 3 (JOG1)
CN7207 - pin 1 (JOG2)
V: 2 V/div. H: 500 µs/div.

FWD direction



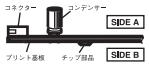
REV direction



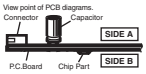
11. PCB CONNECTION DIAGRAM
11.1 MAIN ASSY

SIDE A

PCB 図に対する注意
1. この PCB 図にマウントしている部品は複数の仕向地の部品を含んでいます。各仕向地の情報は、回路図で確認するようにしてください。
2. PCB 図の見かた。

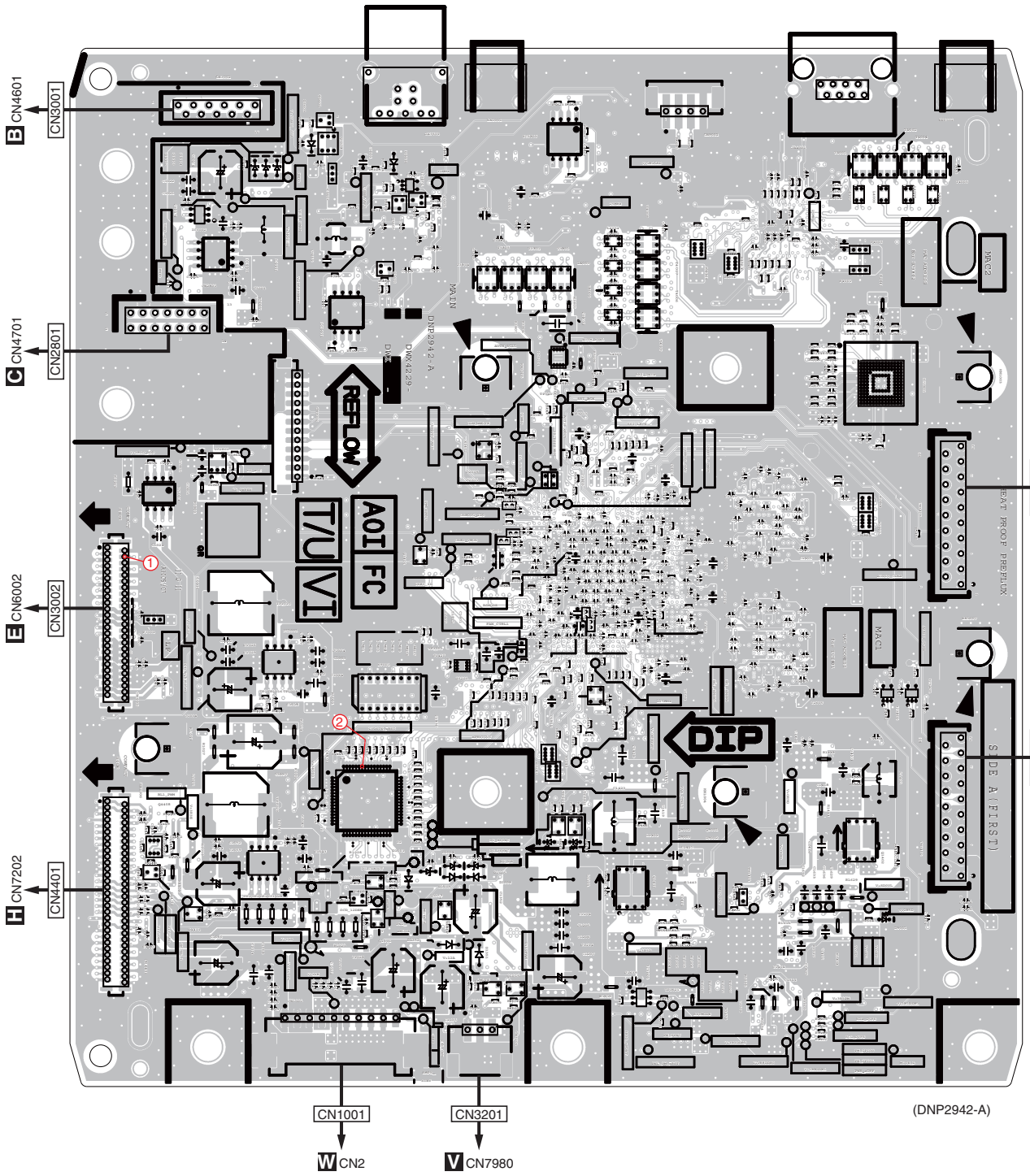


NOTE FOR PCB DIAGRAMS :
1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
2. View point of PCB diagrams.



SIDE A

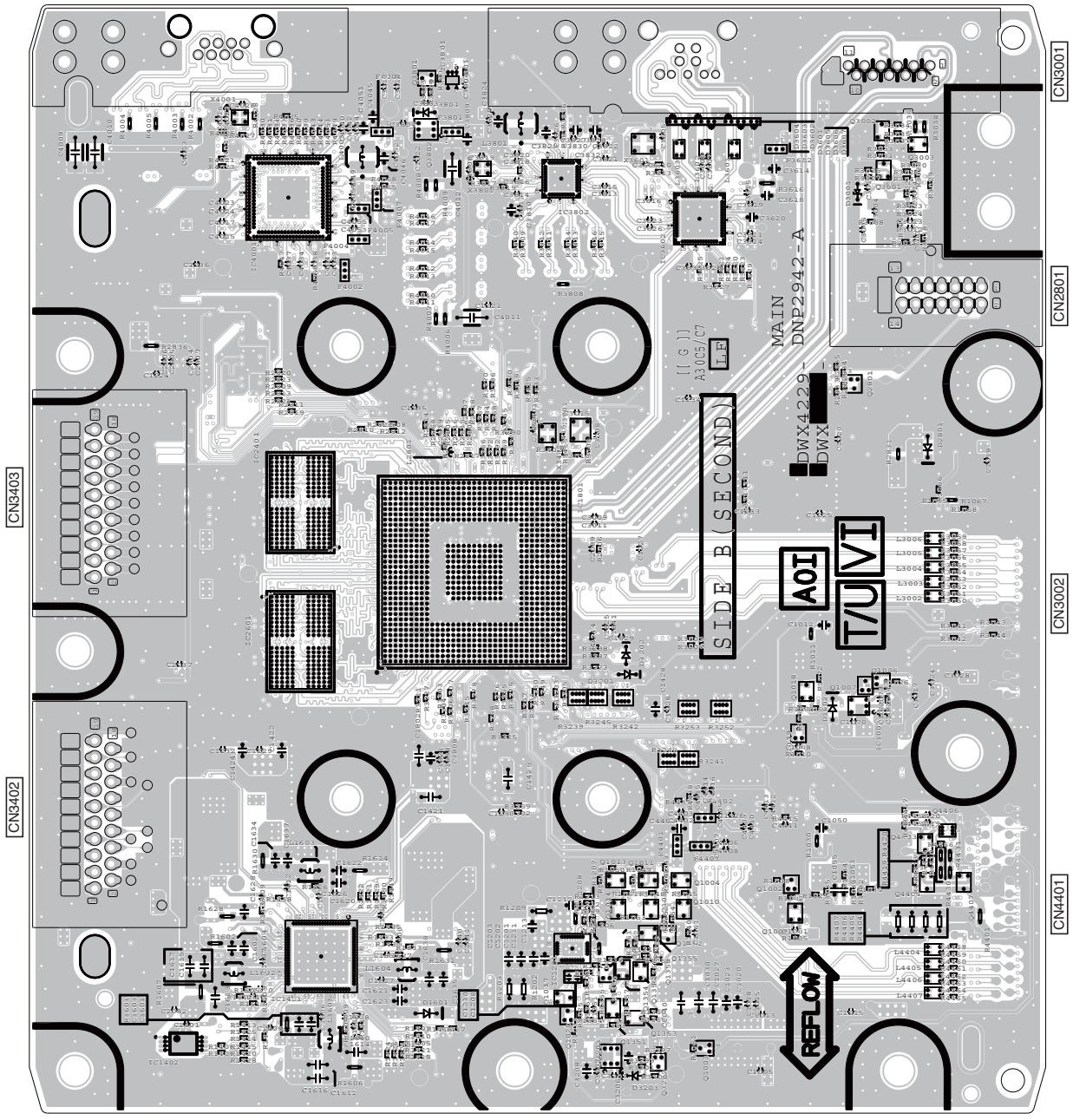
A MAIN ASSY



SIDE B

SIDE B

A MAIN ASSY



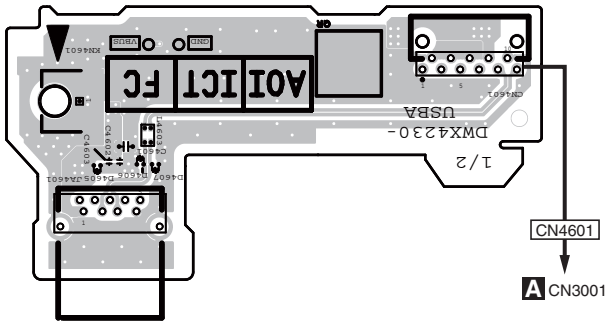
(DNP2942-A)

11.2 USBA and SDCB ASSYS

SIDE A

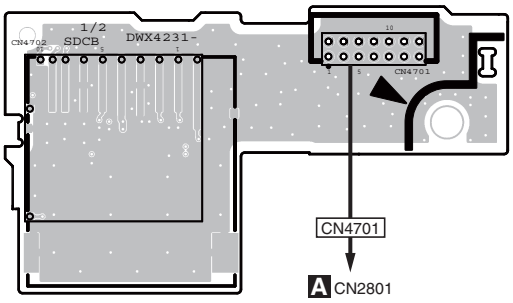
SIDE A

B USBA ASSY



(DNP2943-B)

C SDCB ASSY

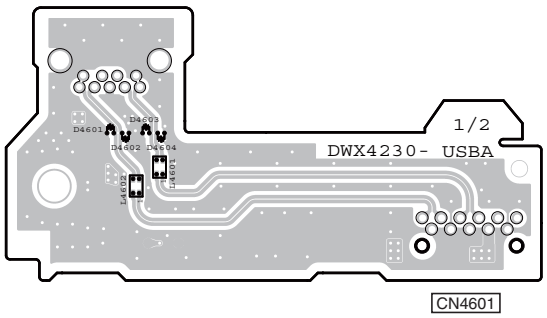


(DNP2943-B)

SIDE B

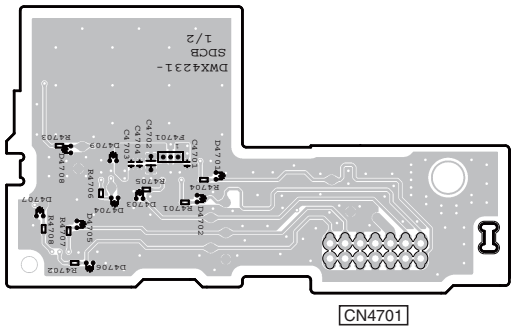
SIDE B

B USBA ASSY



(DNP2943-B)

C SDCB ASSY



(DNP2943-B)

B C

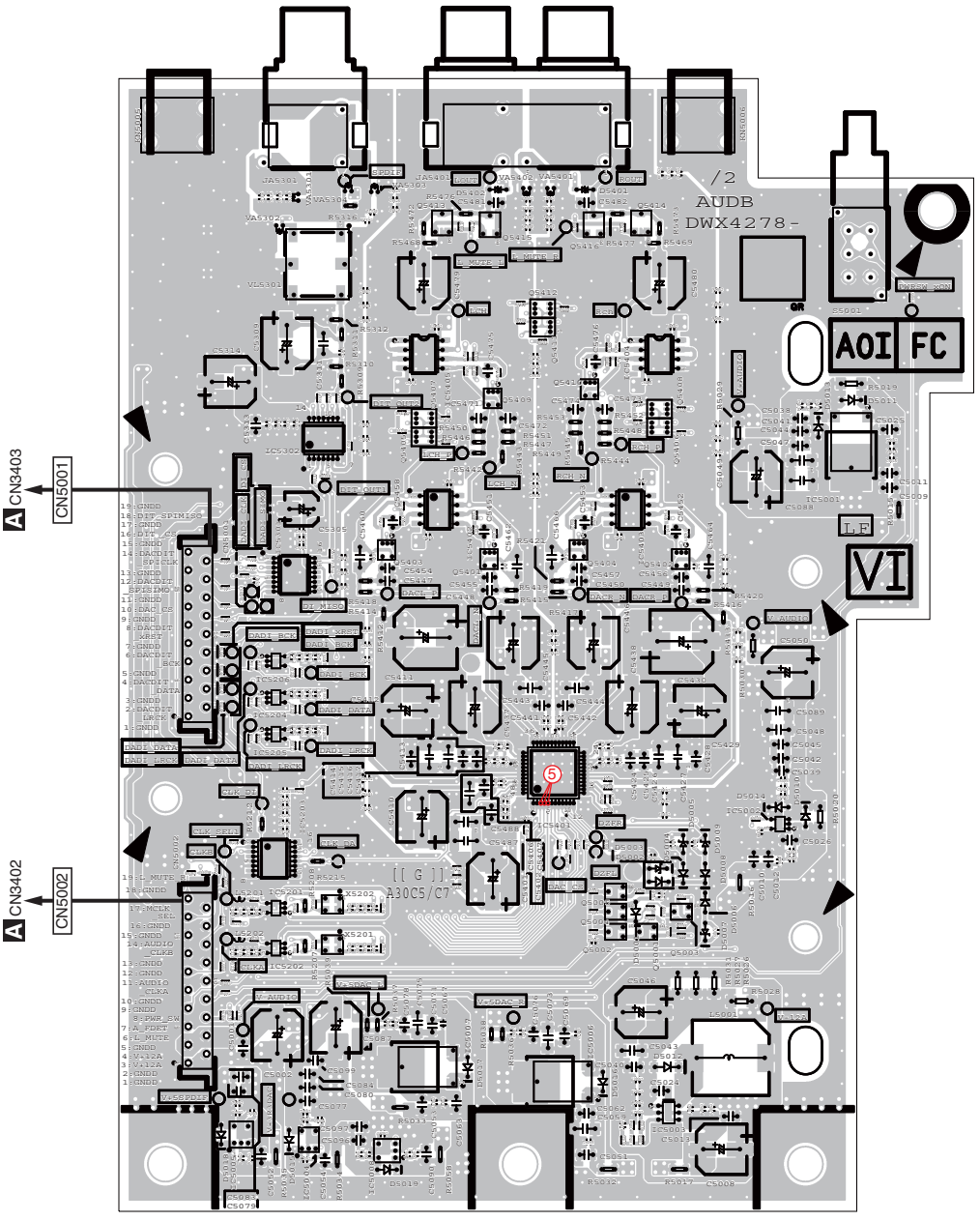
B C

11.3 AUDB ASSY

SIDE A

SIDE A

D AUDB ASSY



(DNP2957-)

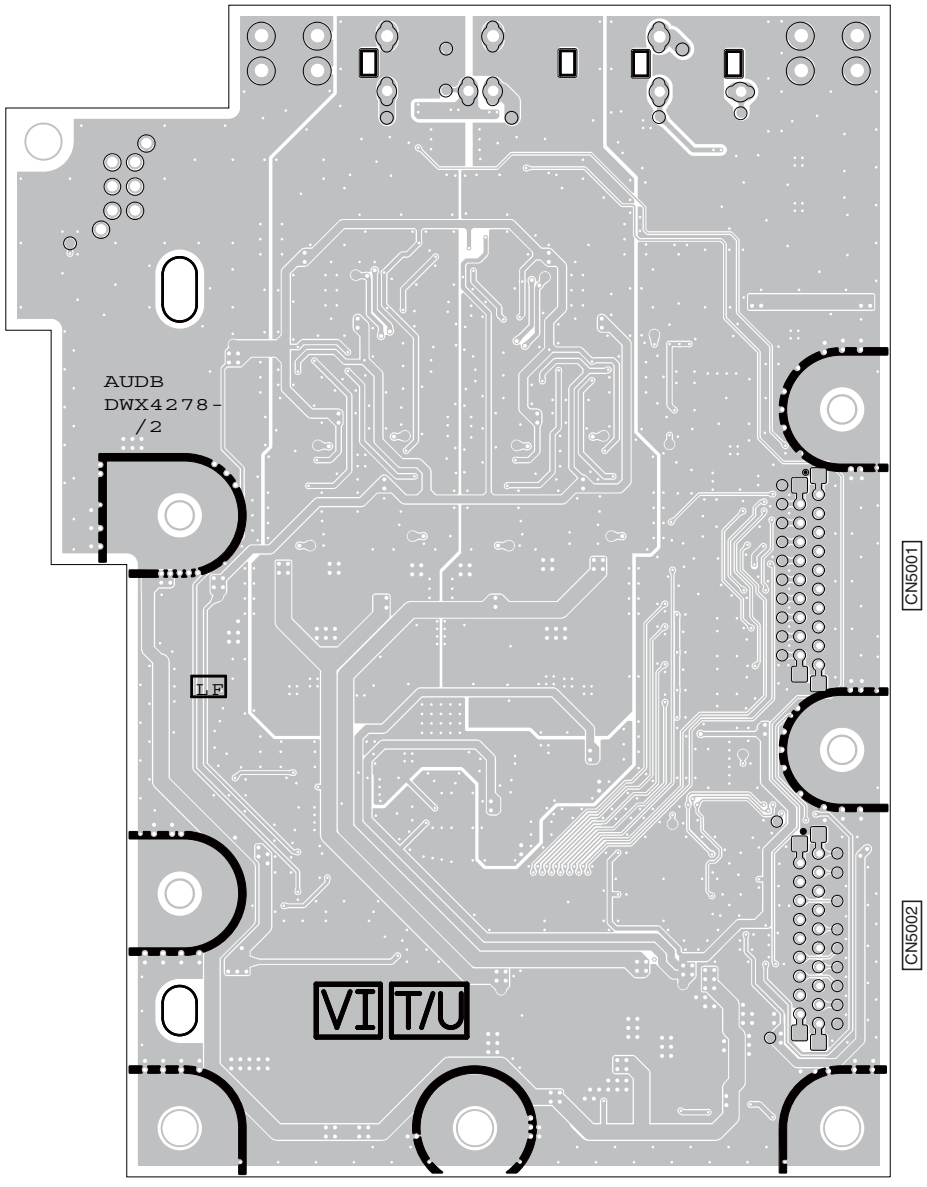
D

D

SIDE B

SIDE B

D AUDB ASSY



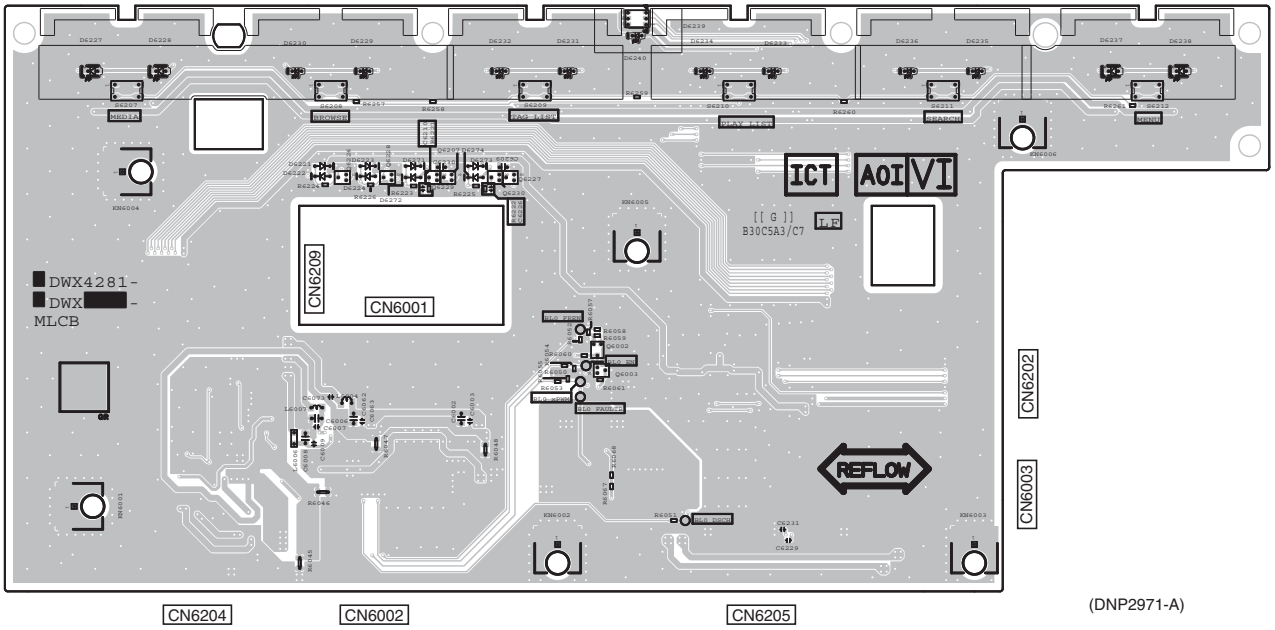
(DNP2957-)

11.4 MLCB ASSY

SIDE A

SIDE A

E MLCB ASSY

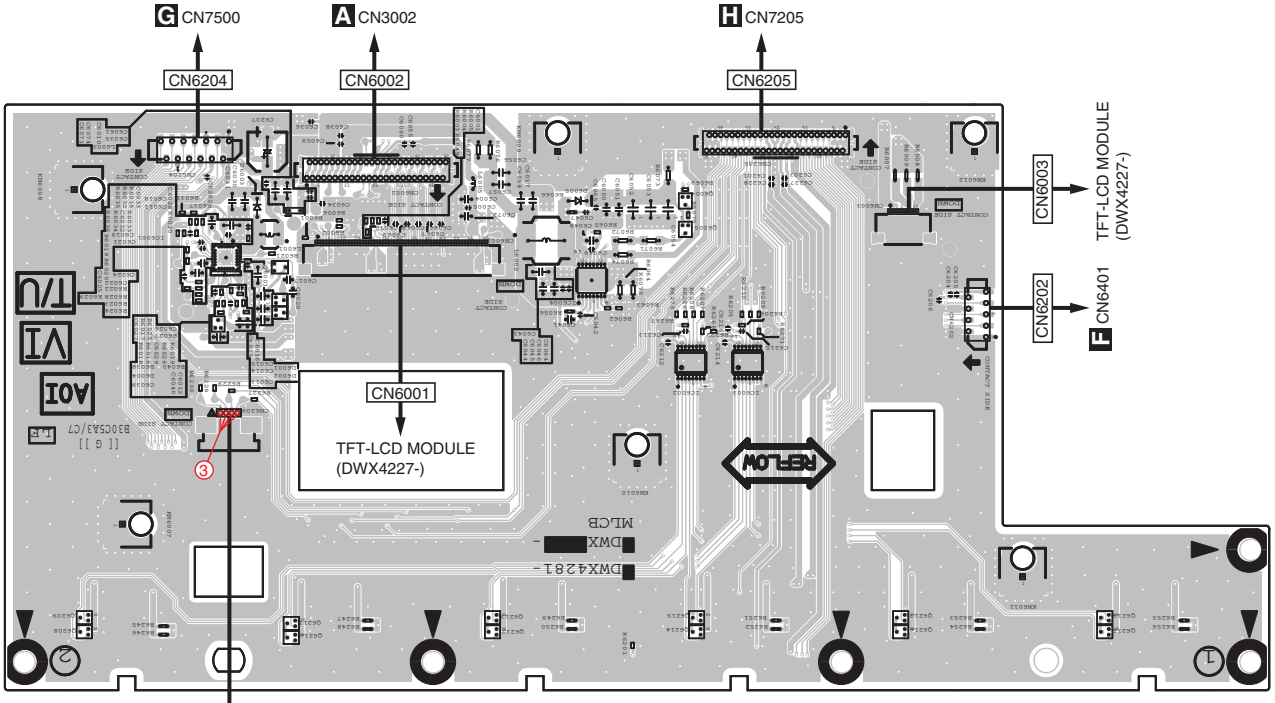


(DNP2971-A)

SIDE B

SIDE B

E MLCB ASSY



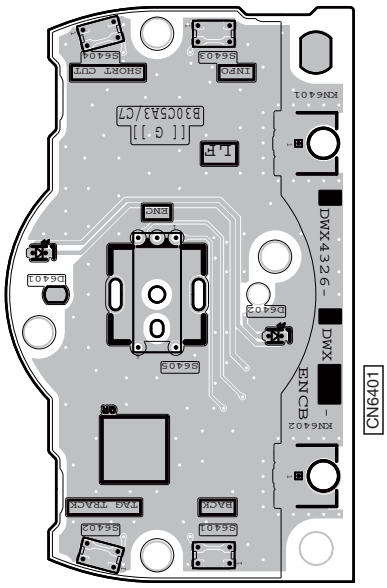
(DNP2971-A)

11.5 ENCB and ILMB ASSYS

SIDE A

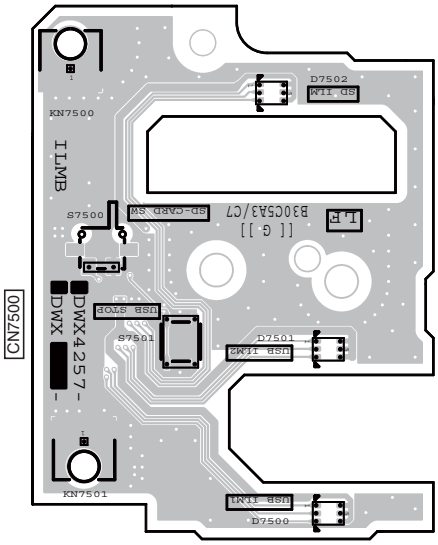
SIDE A

F ENCB ASSY



(DNP2971-A)

G ILMB ASSY

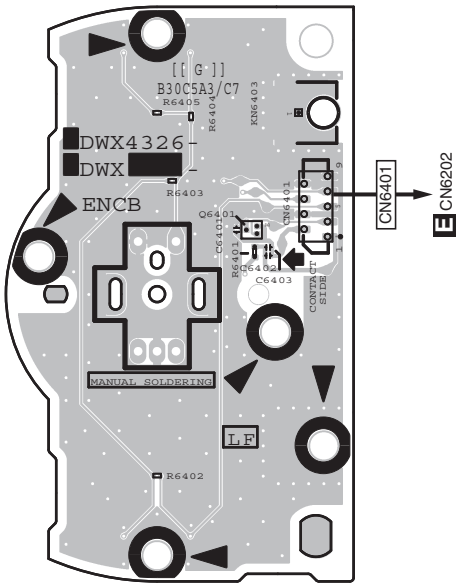


(DNP2950-B)

SIDE B

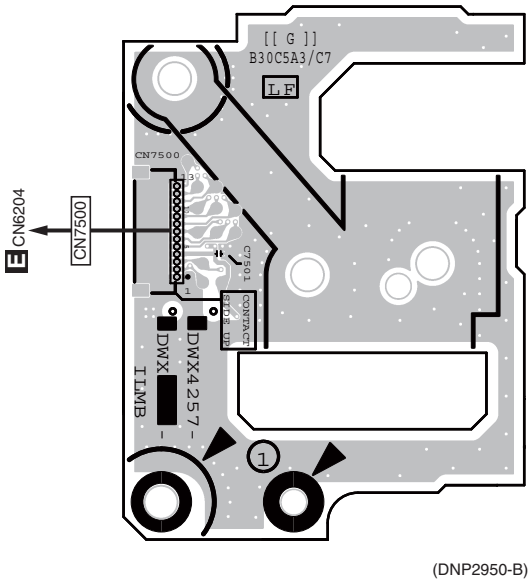
SIDE B

F ENCB ASSY



(DNP2971-A)

G ILMB ASSY



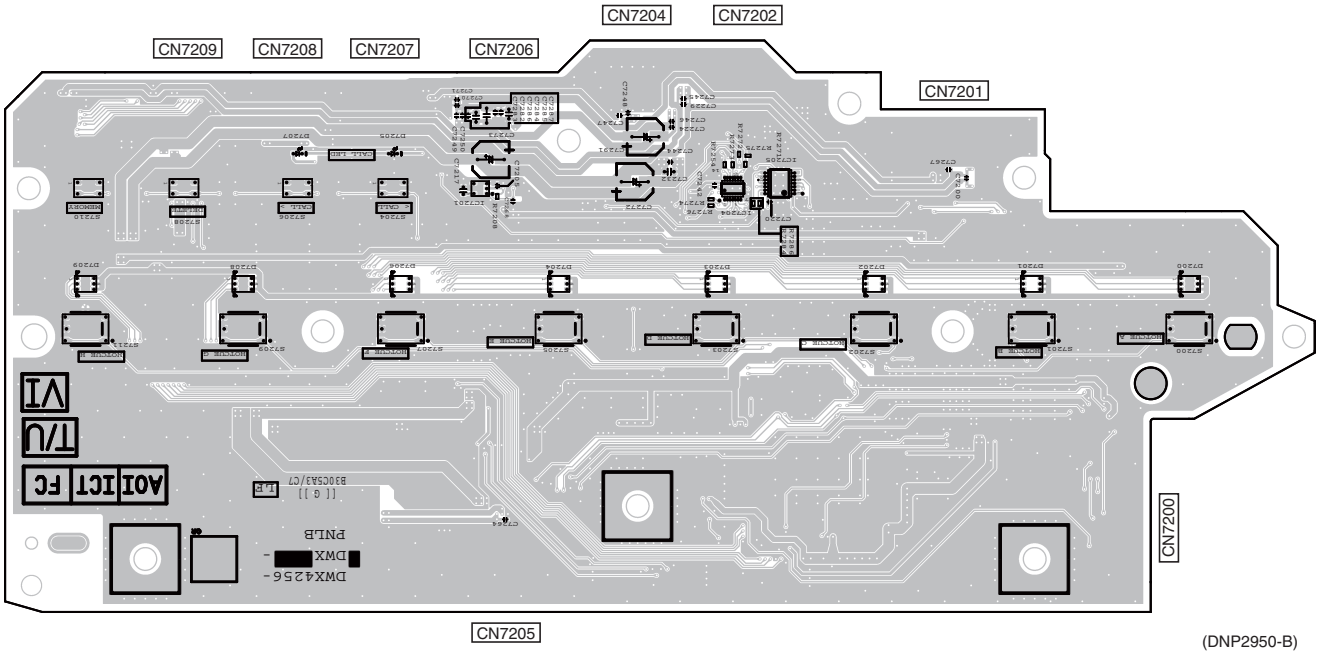
(DNP2950-B)

11.6 PNLB ASSY

SIDE A

SIDE A

H PNLB ASSY

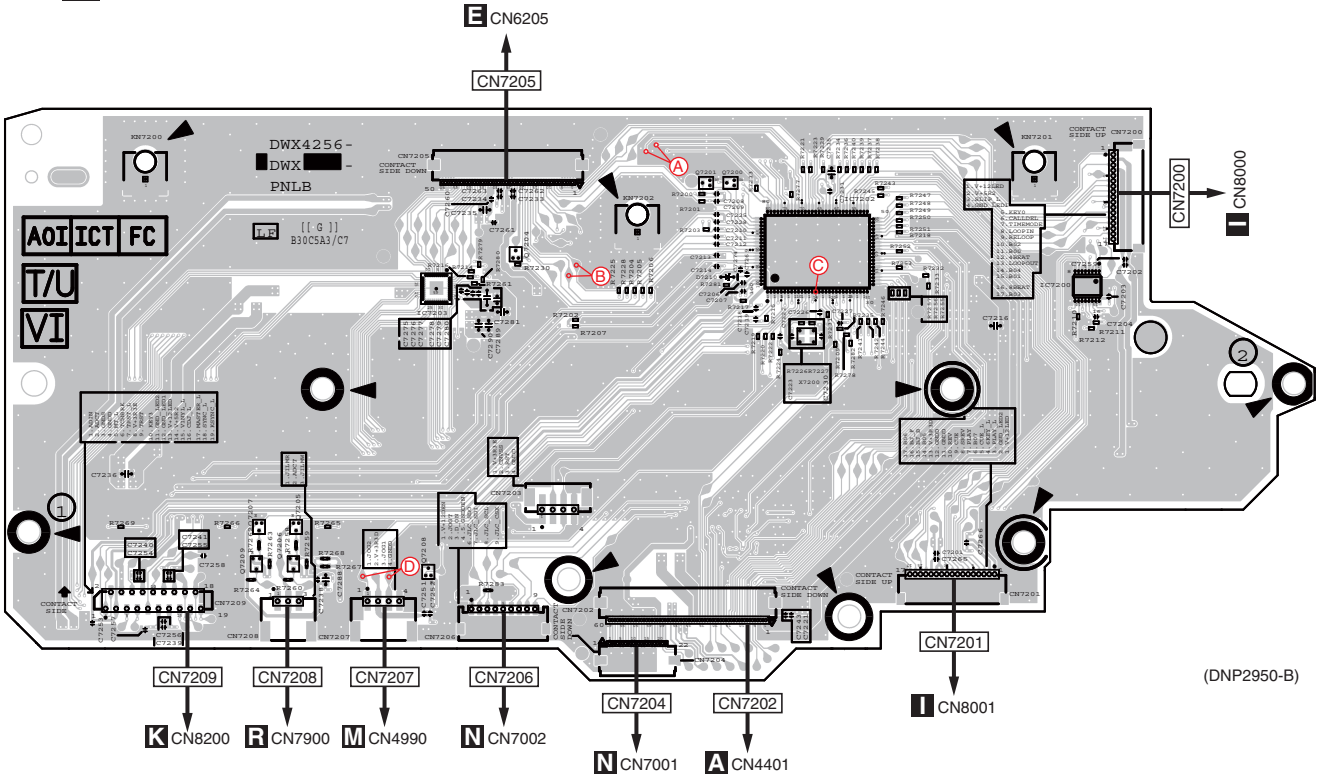


(DNP2950-B)

SIDE B

SIDE B

H PNLB ASSY

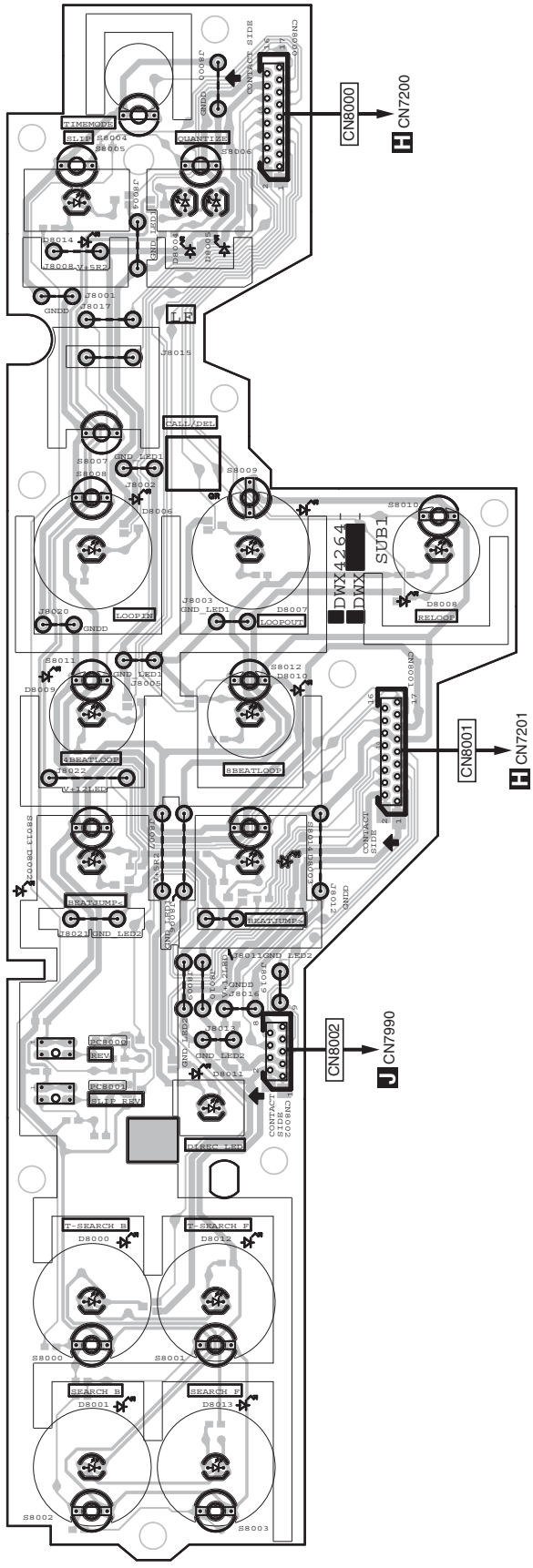


(DNP2950-B)

11.7 SUB1 ASSY

SIDE A

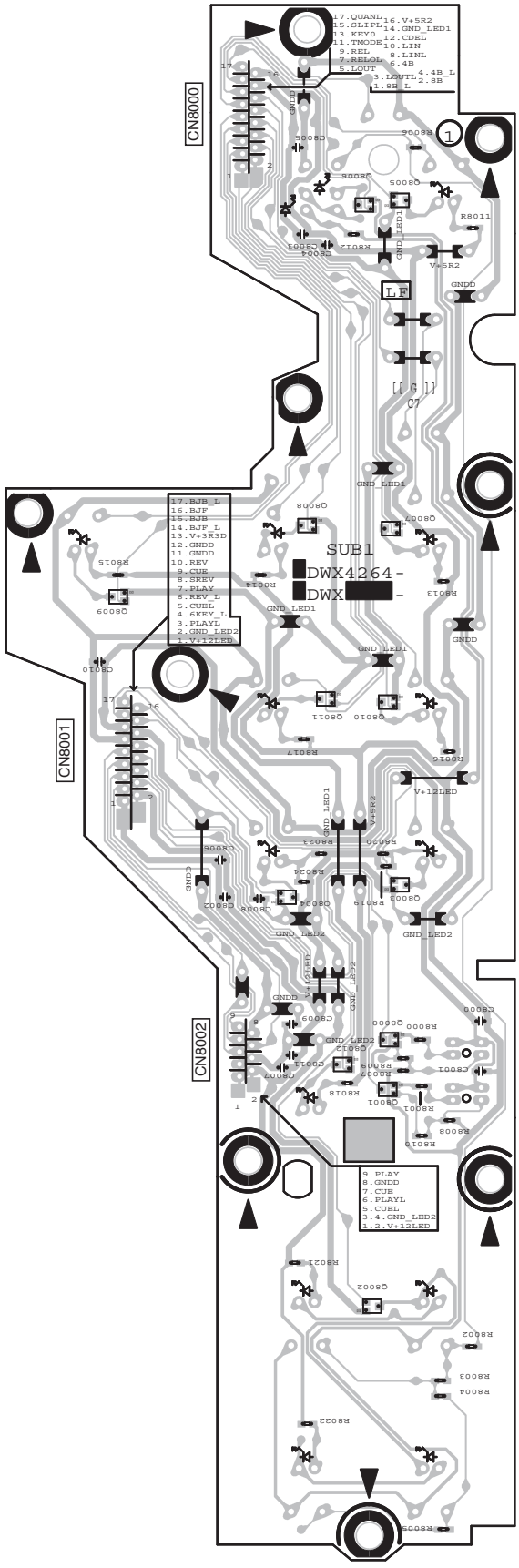
SUB1 ASSY



(DNP2952-A)

SIDE B

SUB1 ASSY



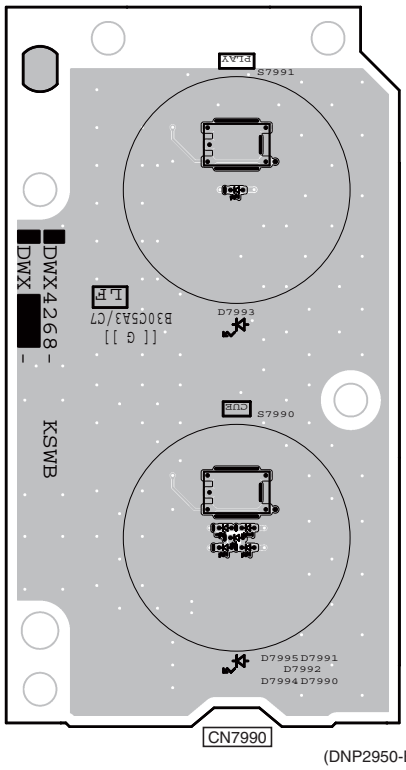
(DNP2952-A)

11.8 KSWB ASSY

SIDE A

SIDE A

J KSWB ASSY

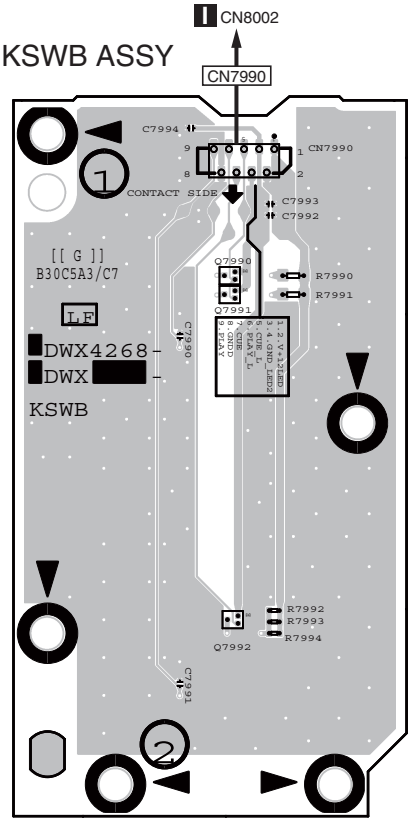


(DNP2950-B)

SIDE B

SIDE B

J KSWB ASSY



(DNP2950-B)

J

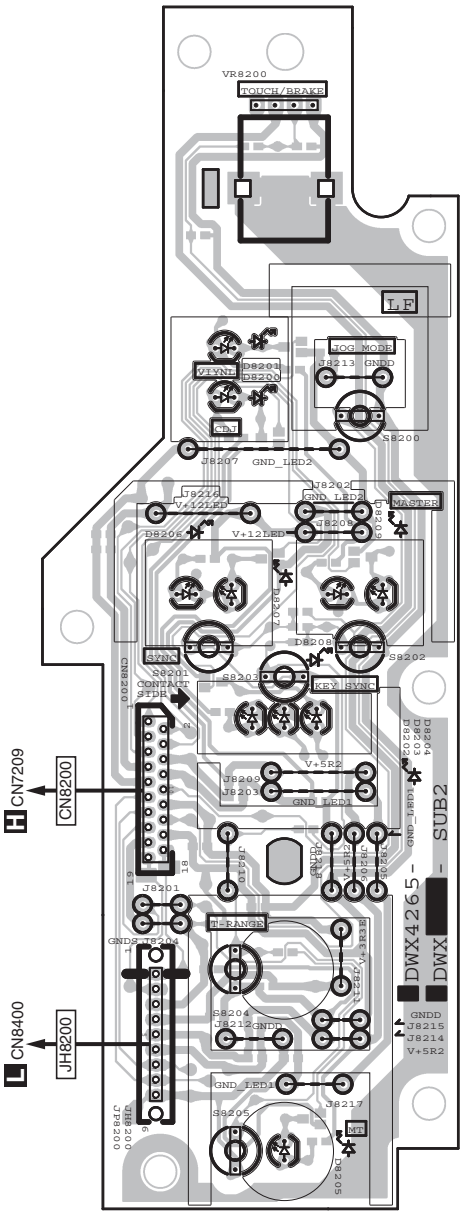
J

11.9 SUB2 ASSY

SIDE A

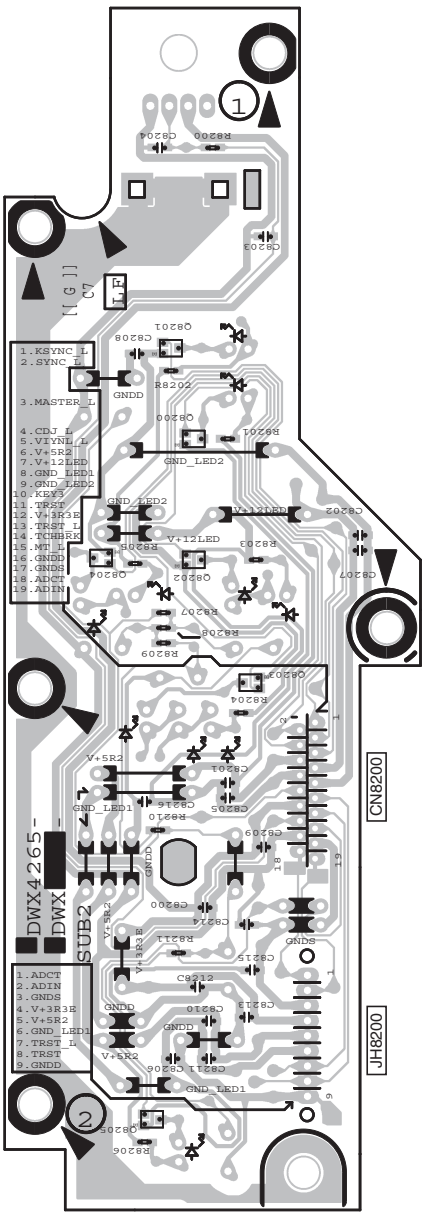
SIDE B

K SUB2 ASSY



(DNP2952-A)

K SUB2 ASSY



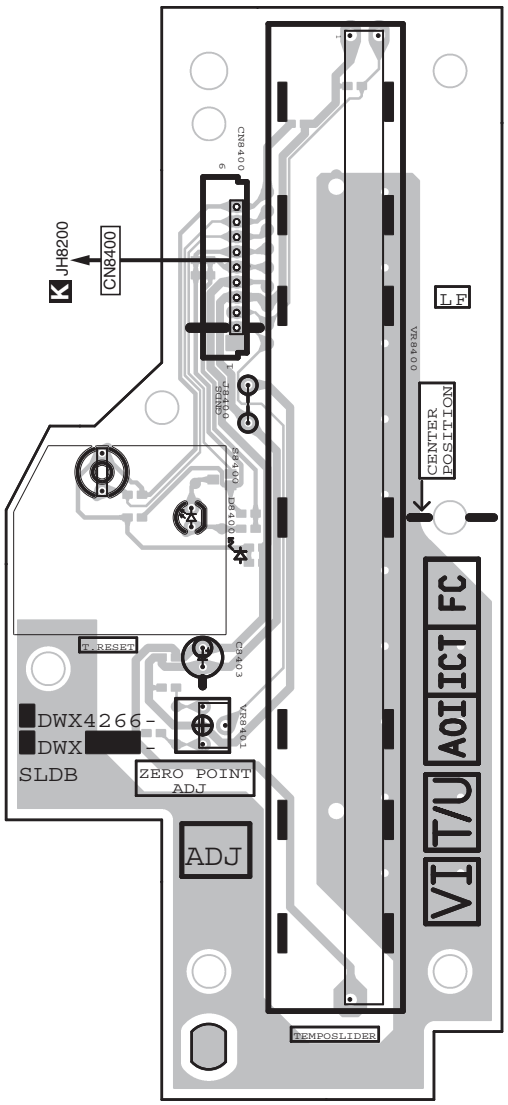
(DNP2952-A)

11.10 SLDB ASSY

SIDE A

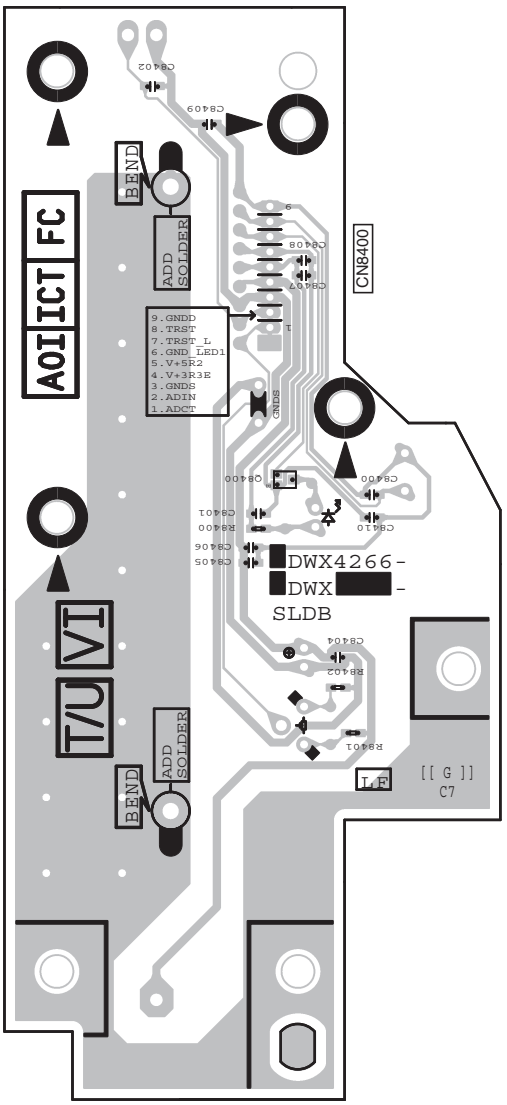
SIDE B

L SLDB ASSY



(DNP2952-A)

L SLDB ASSY



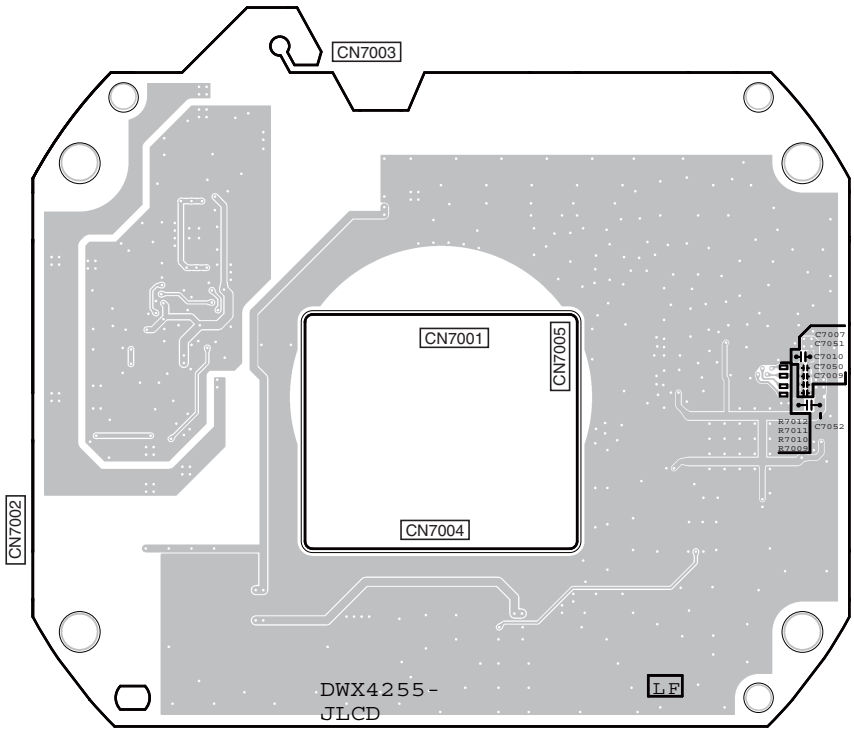
(DNP2952-A)

11.11 JOGB and JLCD ASSYS

SIDE A

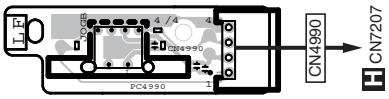
SIDE A

N JLCD ASSY



(DNP2950-B)

M JOGB ASSY

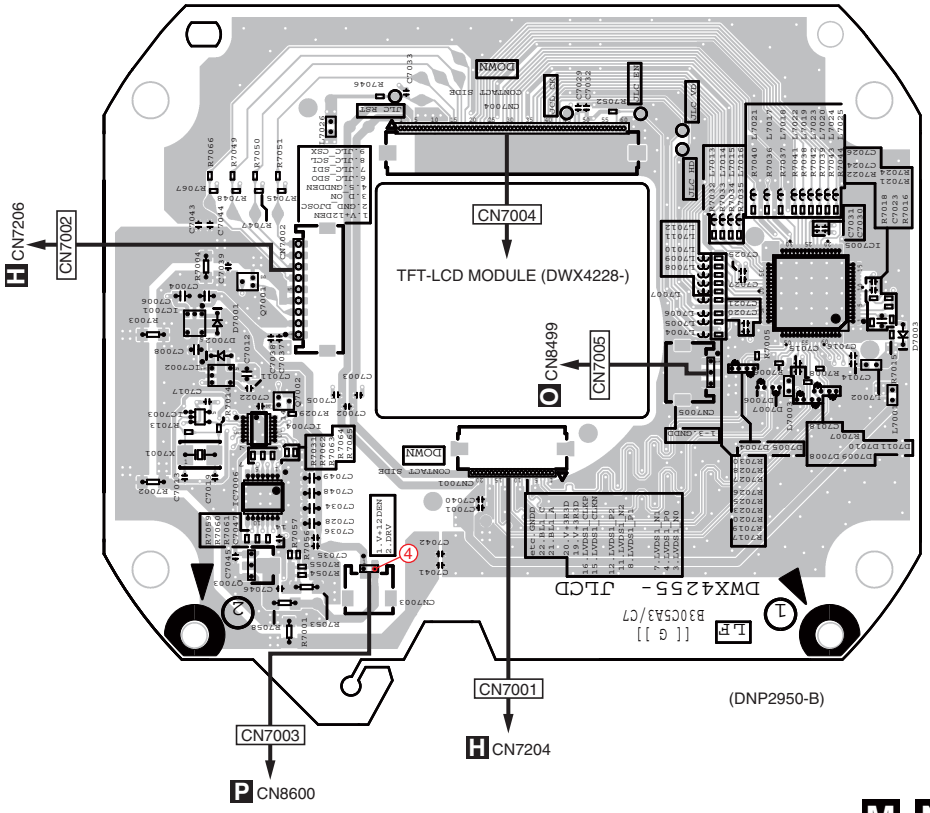


(DNP2951-A)

SIDE B

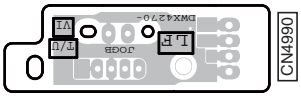
SIDE B

N JLCD ASSY



(DNP2950-B)

M JOGB ASSY



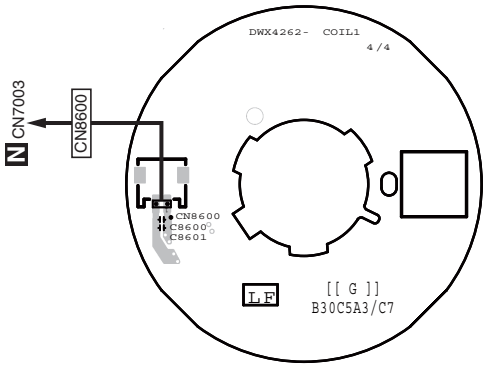
(DNP2951-A)

11.12 CONB, COIL1 and COIL2 ASSYS

SIDE A

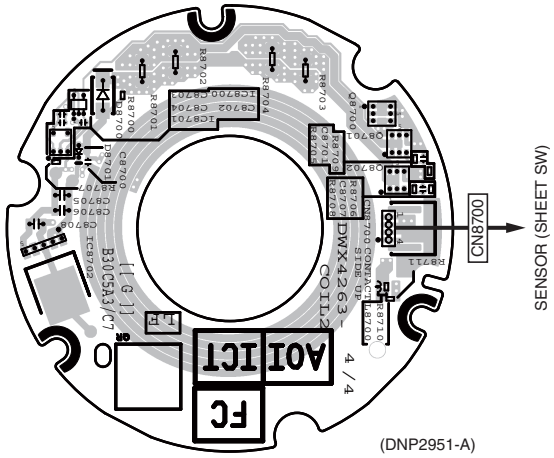
SIDE A

P COIL1 ASSY



(DNP2951-A)

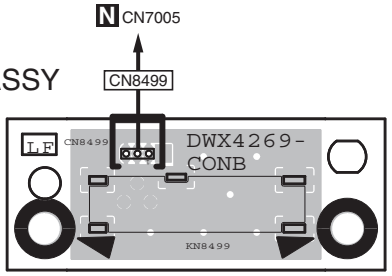
Q COIL2 ASSY



(DNP2951-A)

N CN7005

O CONB ASSY

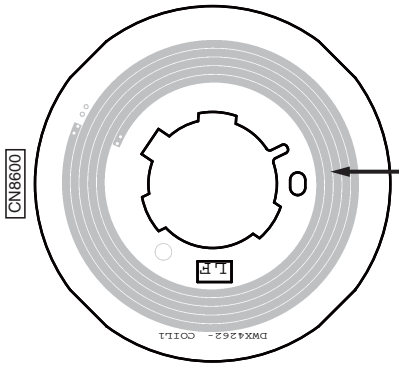


(DNP2952-A)

SIDE B

SIDE B

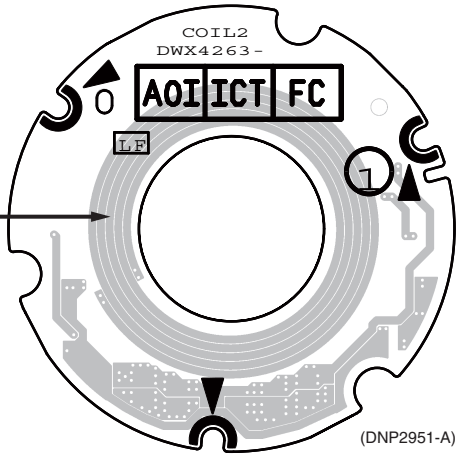
P COIL1 ASSY



(DNP2951-A)

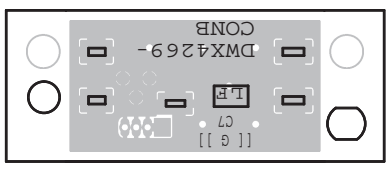
print coil

Q COIL2 ASSY



(DNP2951-A)

O CONB ASSY



CN8499

(DNP2952-A)

O P Q

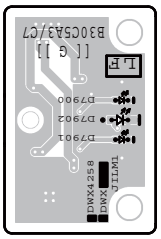
O P Q

11.13 JILM1, JILM2, JILM3 and JILM4 ASSYS

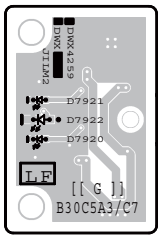
SIDE A

SIDE A

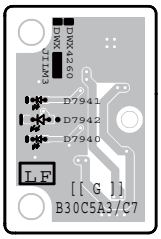
R JILM1 ASSY



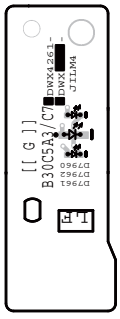
S JILM2 ASSY



T JILM3 ASSY



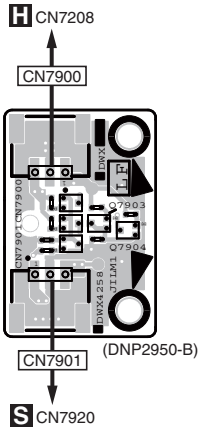
U JILM4 ASSY



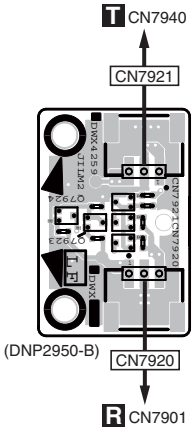
SIDE B

SIDE B

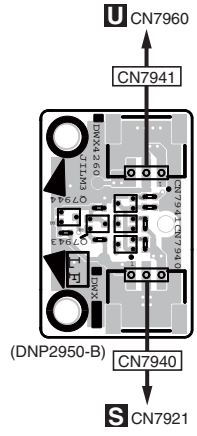
R JILM1 ASSY



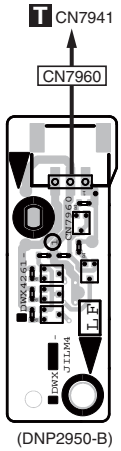
S JILM2 ASSY



T JILM3 ASSY



U JILM4 ASSY

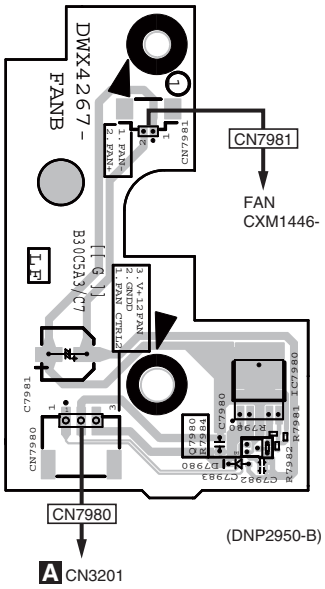


11.14 FANB ASSY

SIDE A

SIDE A

V FANB ASSY

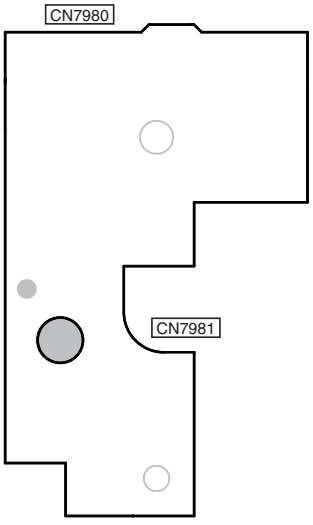


(DNP2950-B)

SIDE B

SIDE B

V FANB ASSY



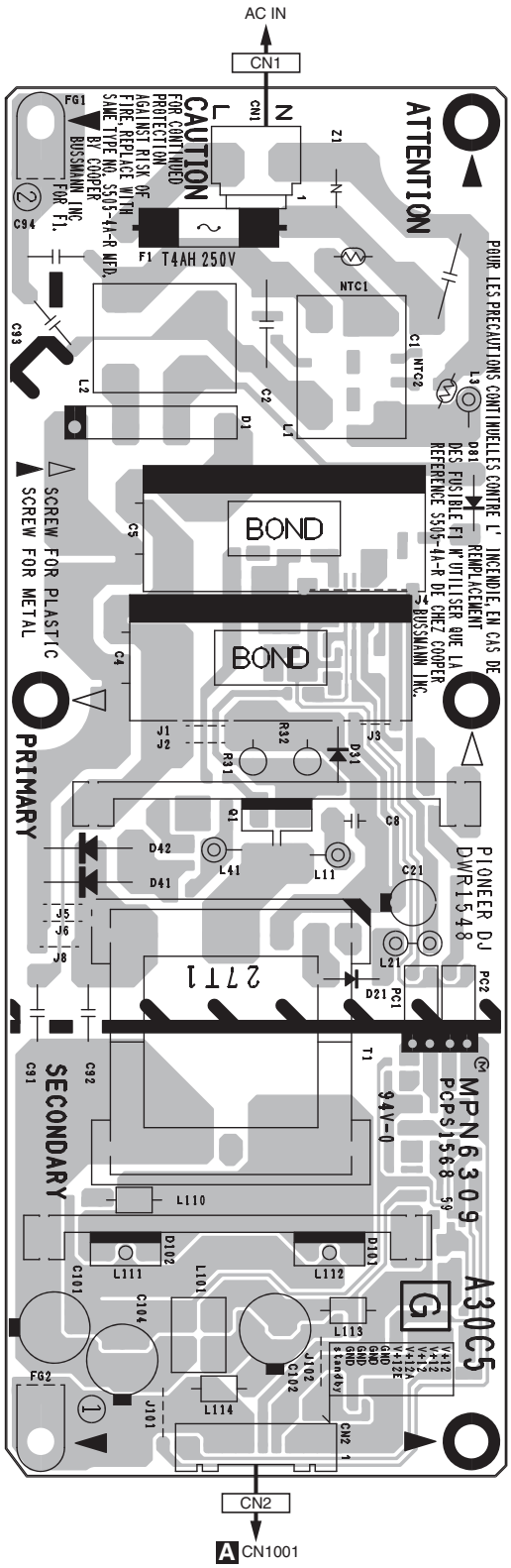
(DNP2950-B)

11.15 SW POWER SUPPLY

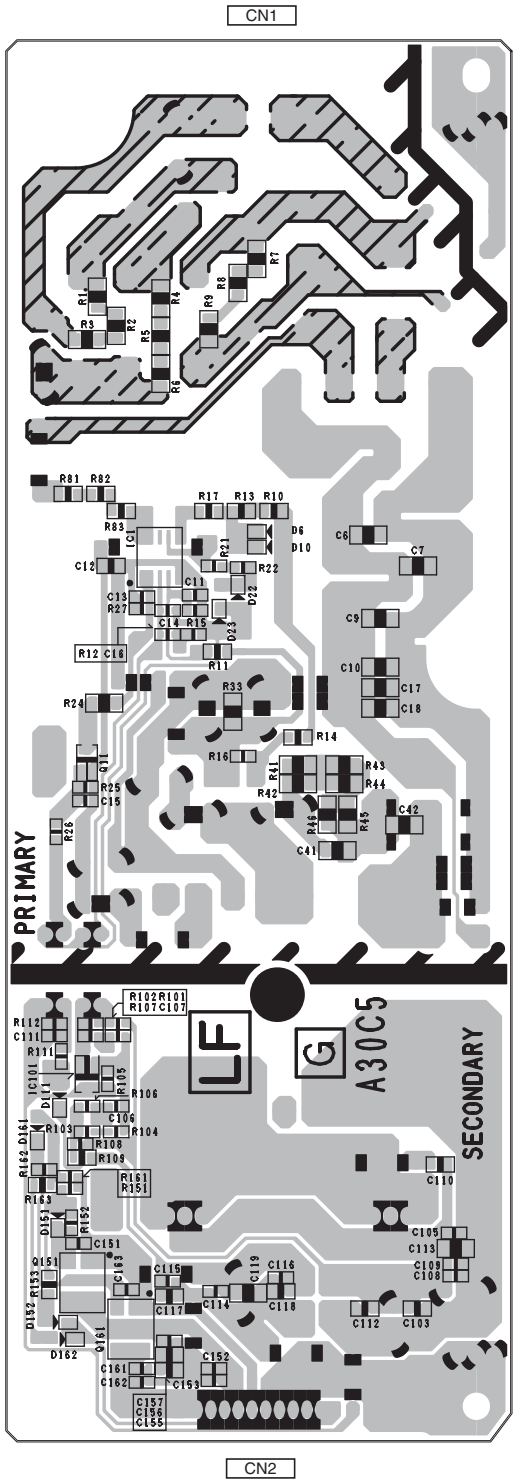
SIDE A

SIDE B

W SW POWER SUPPLY



W SW POWER SUPPLY



12. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω	→	*56 × 10¹*	→	*561* ····· *RD1/4PU 5 6 1 J*
47 kΩ	→	*47 × 10³*	→	*473* ····· *RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*		····· *RN2H R 5 0 K*
1 Ω	→	*1R0*		····· *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ	→	*562 × 10¹*	→	*5621* ····· *RN1/4PC 5 6 2 1 F*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX4229
NSP	1	DIFB ASSY	DWM2705
	2	USBA ASSY	DWX4230
	2	SDCB ASSY	DWX4231
	1	AUDB ASSY	DWX4278
NSP	1	MLCD ASSY	DWM2728
	2	MLCB ASSY	DWX4281
	2	ENCB ASSY	DWX4326
NSP	1	PNLA ASSY	DWM2710
	2	JLCD ASSY	DWX4255
	2	PNLB ASSY	DWX4256
	2	ILMB ASSY	DWX4257
	2	JILM1 ASSY	DWX4258
	2	JILM2 ASSY	DWX4259
	2	JILM3 ASSY	DWX4260
	2	JILM4 ASSY	DWX4261
	2	FANB ASSY	DWX4267
	2	KSWB ASSY	DWX4268
NSP	1	COIL ASSY	DWM2711
	2	COIL1 ASSY	DWX4262
	2	COIL2 ASSY	DWX4263
	2	JOGB ASSY	DWX4270
NSP	1	SUBA ASSY	DWM2712
	2	SUB1 ASSY	DWX4264
	2	SUB2 ASSY	DWX4265
	2	SLDB ASSY	DWX4266
	2	CONB ASSY	DWX4269
	2	SSK1 ASSY	DWX4327
	2	SSK2 ASSY	DWX4328
	2	SSK3 ASSY	DWX4329
⚠	1	SW POWER SUPPLY	DWR1548

A MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	1001,1003	BD9328EFJ
⚠	IC	1002,2801	BD2232G-G
⚠	IC	1004	TPS25921AD
⚠	IC	1201	TPS53515RVE
⚠	IC	1401	BD9571MWF
⚠	IC	1601,3002	TPS25221DBV
NSP	IC	1801	R8A774A0HC01BG@V
	IC	2401,2601	K4F8E3S4HB-MFCJ
NSP	IC	2802	DYW2184
		*Part number of the initial firmware equipped	
⚠	IC	3001	MM3543BH
	IC	3401,3402	TC7SZU04FUS2
	IC	3601,3801	TC7SH08FUS2
	IC	3602	RTS5412E-GR
	IC	3603	MX25L4006EM2I-12G
NSP	IC	3802	RTL8153B-VB-CG
	IC	4001	RTL8367SB-CG
	IC	4401	BU8254KVT
	Q	1001,1008,1018,1356	2SA1576A
	Q	1002,1005,1006,1020	LTC024EEB
	Q	1003,1019	LTC043EEB
	Q	1004,1009-1017,1351	2SC4081
	Q	1007,2801,3603,3605	LTA024EEB
	Q	1352,1357,3202,3601	LTC024EEB
	Q	1353-1355,3001-3003	2SC4081
	Q	1359,4401	2SA1576A
	Q	1401,1402	IPG20N04S4L-08
	Q	3201,4406	EM6K7
	Q	3203	RSQ035P03
	Q	3401	RT1N241M
	Q	3602,3801,4402	LTC024EEB
	Q	3604,3802	RTQ040P02
	Q	4403,4404,4407	2SC4081
	Q	4408	HN1A01FUS1
	D	1001,3001	UDZV5R6
	D	1002,1601	RB060MM-30TF
	D	1004,1005	UDZV6R2
	D	1006,1007,1009,3203	1SS355L@V
	D	1351,1352	RB160M-30
	D	3201,3202	1SS355VM
	D	3601-3607	EZAEG2N50A
	D	3608,3609,3801	1SS355L@V
	TH	1401	NCU18XH103F60

Mark	No.	Description	Part No.
		MISCELLANEOUS	
	L	1001,1002 INDUCTOR	CTH1255
	L	1201 INDUCTOR	CTH1476
	L	1401 COIL (0.15 uH)	DTH1222
	L	1402 COIL (0.15 uH)	DTH1223
NSP	L	1601,1602 CHOKE COIL (0.27 uH)	CTH1591
	L	1603,1604 COIL (0.33 uH)	DTH1224
	L	2001,2005 INDUCTOR	CTF1752
NSP	L	2002-2004 CHIP FERRITE BEADS	OTL8019
NSP	L	2006,2007 CHIP FERRITE BEADS	OTL8019
	L	2801 CHIP BEADS	VTL1126
	L	3001 CHOKE COIL (22 uH)	CTH1561
	L	3002-3006,3601 COIL	ATH7015
	L	3602,3603,4005-4008 COIL	ATH7022
	L	3604 SMD SPL INDUCTOR	OTL8042
	L	3801,4009 SMD SPL INDUCTOR	CTH1531
	L	4404-4407 COIL (22 uH)	ATH7015
	F	3001,3601,3801 EMI FILTER	CCG1352
	F	4001-4007,4401-4403 EMI FILTER	CCG1352
	JA	3601 USB JACK	DKN1683
	JA	4001 RJ45 CONNECTOR	VKN2023
	KN	1001,1002 SCREW PLATE	VNE1948
	KN	1003-1007 WRAPPING TERMINAL	CKF1089
	T	4001-4004 TRANSFORMER	DTX1012
	X	3001 CRYSTAL RESONATOR (50 MHz)	CSS1884
	X	3201 CRYSTAL OSCILLATOR (125 MHz)	DSS1221
	X	3401 CRYSTAL OSCILLATOR (16.6666 MHz)	DSS1219
	X	3402 CRYSTAL OSCILLATOR (32.768 kHz)	CWX4887
	X	3601 CRYSTAL RESONATOR (12 MHz)	CSS1876
	X	3801,4001 CRYSTAL RESONATOR (25 MHz)	DSS1218
	CN	1001 CONNECTOR	DKN1661
	CN	2801 14P PLUG	AKM7170
	CN	3001 B TO B 11PIN PLUG	AKM7101
	CN	3002 CONNECTOR	CKS6207
	CN	3201 CONNECTOR	AKM1289
	CN	3402,3403 19P RECEPTACLE	AKP7199
	CN	4401 FFC/FPC CONNECTOR	CKS6543
		RESISTORS	
	R	1001,1009,1023,1024	RS1/8SQ0R0J
	R	1003,1004,1006,1007	RS1/4SA2R7J
	R	1011,1030	RS1/10SR220J
	R	1012	RS1/16SS8200D
	R	1013	RS1/16SS4702D
	R	1014,1033	RS1/16SS1002D
	R	1017,1018,1020,1021	RS1/4SA2R7J
	R	1027,1028,1037,1038	RS1/8SQ0R0J
	R	1032	RS1/16SS2702D
	R	1056,1404,1443,1444	RS1/8SQ0R0J
	R	1064	RS1/16SS4703F
	R	1067	RS1/10SR1053D
	R	1069,1202,1203	RS1/4SA0R0J
	R	1201	RS1/16SS1503D
	R	1205	RS1/16SS2003D
	R	1206	RS1/16SS1203D
	R	1207	RS1/10SR2702F
	R	1208,2801,3296	RS1/10SR0R0J
	R	1209,4404-4407	RS1/4SA2R7J
	R	1210	RS1/16SS1103D

Mark	No.	Description	Part No.
	R	1211,1611,1613	RS1/16SS1502D
	R	1352	RS1/16SS3301D
	R	1353	RS1/16SS2400D
	R	1430,1431	RS1/16SS6801F
	R	1432	RS1/16SS2701F
	R	1442	RS1/16SS5100F
	R	1447,1448,1601-1603	RS1/8SQ0R0J
	R	1606,1607,1614-1617	RS1/8SQ0R0J
	R	1608,1609	RS1/16SS3902D
	R	1628-1631,1634,1635	RS1/8SQ0R0J
	R	1638	RS1/10SR472J
	R	2201,2203,2401,2601	RS1/16SS2400F
	R	2836,2841,3007,3616	RS1/8SQ0R0J
	R	2864,2865	RAB4CQ223J
	R	3003	RS1/16SS1601F
	R	3011-3013	RS1/16SS2000F
	R	3020	RS1/16SS3002D
	R	3022	RS1/16SS1202D
	R	3023	RS1/16SS1000D
	R	3024	RS1/16SS2201D
	R	3028	RS1/16SS2702F
	R	3030	RS1/16SS1802F
	R	3036	RS1/10SR331J
	R	3239-3243,3245,3246	RAB4CQ472J
	R	3252,3253	RAB4CQ472J
	R	3615	RS1/16SS6201F
	R	3819,4042	RS1/16SS2491F
	R	4002-4005	RS1/10SR750J
	R	4063	RAB4CQ220J
	R	4064	RAB4CQ102J
	R	4401,4408	RS1/8SQ0R0J
	R	4419	RS1/10SR18R0D
	R	4420,4430,4431	RS1/10SR22R0D
	R	4466	RS1/16SS2700D
	Other Resistors		RS1/16SS###J
		CAPACITORS	
	C	1001,1002,1006,1021	CKSSYB104K16
	C	1003,1004,1022,1024 (10 uF)	DCH1263
	C	1005,1008,1009,1015	CCSSCH331J50
	C	1007,1011,1017,1018	CCSSCH102J50
	C	1010,1014,1030,1214 (1 uF)	ACE7129
	C	1012,1016,1050,1051	CKSRYB104K25
	C	1013,4013	CCSSCH101J50
	C	1019,1041,1061,1405	CKSSYB103K16
	C	1020 (0.01 uF)	ACE7113
	C	1023,1029 (0.1 uF)	ACE7100
	C	1025	CKSSYB472K25
	C	1026,1043,1045,1052 (10 uF)	DCH1263
	C	1027,1064 (0.47 uF)	ACE7114
	C	1028,1035,1060,1352 (220 uF/16 V)	CCH2090
	C	1031,1033,1037,1039	CKSSYB104K16
	C	1032,1036,1048,1056	CCSSCH102J50
	C	1034,1059,3023 (100 uF/16 V)	CCH1565
	C	1042,1044,1046,1047	CKSSYB104K16
	C	1049,1054,1063	CKSSYB104K16
	C	1053	CKSRYB103K50
	C	1057 (470 uF/16 V)	CCH1680
	C	1058,3001,3208,4401 (10 uF)	DCH1263
	C	1062,1432,1641,3003	CCSSCH102J50
	C	1069,1070,1408,1409	CKSSYB104K10

Mark	No.	Description	Part No.
	C	1201-1206 (22 uF)	DCG1066
	C	1207 (100 uF/6.3 V)	ACH7275
	C	1208,1210	CKSSBYX225M25
	C	1209,4016,4040,4042	CKSSYB103K25
	C	1211,1212,3206	CKSRYB104K25
	C	1213	CCSRCH471J50
	C	1215-1240,1351,3002	CKSSYB104K16
	C	1403,1404,1417,1418 (10 uF)	CCG1192
	C	1406,1852,1855,1857	CKSSYB103K16
	C	1407,1410,1605-1607 (1 uF)	DCH1266
	C	1411,1412,1431,1640	CKSSYB104K10
	C	1413,1416 (47 uF)	ACG7061
	C	1419,1421,1423,1425 (100 uF)	CCG1232
	C	1420,1422,1424,1426	CKSQYX476M6R3
	C	1427,1612-1617,1802 (100 uF)	CCG1232
	C	1428,1635	CKSQYX476M6R3
	C	1601,1602,1608,1611 (10 uF)	CCG1192
	C	1620,1621,1628,1629 (10 uF)	CCG1192
	C	1624-1627,2054-2058 (1 uF)	DCH1266
	C	1632,1633,1636,1639 (10 uF)	CCG1192
	C	1634 (22 uF)	DCH1256
	C	1801,1803,1806,1808 (10 uF)	CCG1234
	C	1804,1807,1818,1821 (2.2 uF)	CCG1379
	C	1809,1811,1813,1816	CKSSYB104K10
	C	1810,1814,1825,1829	CKSSYX474K6R3
	C	1812,1854,2028-2031 (10 uF)	CCG1234
	C	1815,2006,2007	0603X475K6R3CT
	C	1817,1820,1823,1835	CKSSYB224K6R3
	C	1819,1822,1824	CKSSYB104K10
	C	1826-1828,1830,1833	CKSSYB104K10
	C	1831,1834,1837,1840	CKSSYB473K16
	C	1832,2046	CKSSYX474K6R3
	C	1836,1839,1858,1861	CKSSYB104K10
	C	1838,1841,1843,1845	CKSSYB224K6R3
	C	1842,1844,1846,1848	CKSSYB223K16
	C	1847,1849,1851,1853	CKSSYB473K16
	C	1850,1859,1862,1865	CKSSYB223K16
	C	1856	CKSSYB473K16
	C	1860,1863,1866,1869	CKSSYB103K16
	C	1864,1867,1870,1873	CKSSYB104K10
	C	1868,1871	CKSSYB223K16
	C	1872,1874,1876-1881	CKSSYB103K16
	C	1875,2001,2004,2008	CKSSYB104K10
	C	2002,2003,2005,2804 (2.2 uF)	CCG1379
	C	2009-2011,3620,3824	0603X475K6R3CT
	C	2012-2015,2017,2026	CKSSYB104K10
	C	2016,2018-2025,2034	CKSSYB103K16
	C	2027,2032,2033	CKSSYB104K10
	C	2035-2045,2047-2053	CKSSYB104K10
	C	2059,2060,2065-2087	CKSSYB104K10
	C	2061-2064,2088-2094 (1 uF)	DCH1266
	C	2095,2096,2401-2404	CKSSYB104K10
	C	2097,2098,2405,2605 (10 uF)	CCG1234
	C	2406-2427,2601-2604	CKSSYB104K10
	C	2606-2627,2803,2805	CKSSYB104K10
	C	2801,2802,3612,3614 (10 uF)	CCG1234
	C	2806,2811,2814,2817 (2.2 uF)	CCG1379
	C	2807,2809,2812,2813	CKSSYB104K10
	C	2808,4418,4432 (1 uF)	DCH1266
	C	2810,3007,3020,3202	CKSSYB103K16
	C	2815,2816,2818,3201	CKSSYB104K10
	C	3005,3017,3018,3025	CKSSYB104K16
	C	3006	CKSSYB153K16
	C	3008,3015	CCSSCJ3R0C50
	C	3010,3016,3024,3027	CCSSCH102J50
	C	3012	CCSSCH561J50
	C	3019	CKSQYX226M16
	C	3021,3022 (10 uF)	CCG1192
	C	3026,3029,3207,3409	CKSSYB104K16
	C	3028,3030,3031,3205	CCSSCH102J50
	C	3203,3402	CKSSYB103K16
	C	3204,3401,3403-3407	CKSSYB104K10
	C	3209	CCSSCH331J50
	C	3408,4017,4041	CCSSCH102J50
	C	3601	CKSQYB225K16
	C	3602-3604,3607-3611	CKSSYB104K10
	C	3605,3606	CCSSCH7R0D50
	C	3613,3615-3617,3619	CKSSYB104K10
	C	3618,3809,3810,3829 (10 uF)	CCG1234
	C	3621-3630,3801,3803	CKSSYB104K10
	C	3804,3806,3807	CKSSYB104K10
	C	3808,4022,4028	CCSSCH100D50
	C	3811-3816,3818	CKSSYB104K10
	C	3817,3831,4051	CKSRYB105K10
	C	3819	CCSSCH120J50
	C	3820-3823,3825-3828	CKSSYB104K10
	C	3830,3832,4015,4045 (10 uF)	CCG1234
	C	4001-4008,4018-4021	CKSSYB104K10
	C	4009,4010 (1 000 pF)	ACG1127
	C	4023-4027,4029-4039	CKSSYB104K10
	C	4043,4044,4048-4050	CKSSYB104K10
	C	4046 (10 uF)	CCG1234
	C	4047,4403,4406,4410	CKSSYB103K25
	C	4052-4055	CKSSYB104K10
	C	4404,4405,4407-4409	CKSSYB104K16
	C	4411,4413,4416	CKSSYB103K25
	C	4412,4414,4415	CKSSYB104K16
	C	4417	CCSSCH151J50
	C	4419-4426	CKSSYB104K16
	C	4427-4431,4433	CCSSCH102J50

DIFB ASSY
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SDCB ASSY

B C

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SEMICONDUCTORS

	D	4605-4607,4701-4709	EZAEG2N50A

MISCELLANEOUS

	L	4603 COIL	ATH7015
	F	4701 EMI FILTER	CCG1352
	JA	4601 USB JACK	DKN1684
	KN	4601 WRAPPING TERMINAL	CKF1089
	CN	4601 B TO B 11PIN JACK	AKN7067
	CN	4701 14P SOCKET	AKP7248

Mark	No.	Description	Part No.
	CN 4702	CONNECTOR	CKS5956

RESISTORS

	All Resistors	RS1/16SS###J

CAPACITORS

	C 4601,4702 (10 uF)	CCG1192
	C 4602,4701,4703	CKSSYB104K10
	C 4603,4704	CCSSCH102J50

D AUDB ASSY

SEMICONDUCTORS

⚠	IC 5001	NJM78M09DL1A
⚠	IC 5002	NJM2828F3-09
⚠	IC 5003	NJW1933F1
⚠	IC 5004	NJM2872BF33
⚠	IC 5005,5008	NJM2872BF05
⚠	IC 5006,5007	NJM7805DL1A
	IC 5201,5202,5204-5206	TC7SH08FUS2
	IC 5203	74LCX157FT
	IC 5301	AK4104ET
	IC 5302	NLV74VHCU04DT
	IC 5401	AK4490EQ
	IC 5402,5403	NJM8801E
	IC 5404,5405	OPA1678ID
	Q 5001-5005	LSCR523UB
	Q 5401-5404,5409,5410	2SK3320
	Q 5405-5408,5411,5412	HN1C01FUS1
	Q 5413-5416	INC2002AC1
	D 5001,5002,5004,5006	1SS355VM
	D 5003,5005,5007	UDZV6R2
	D 5008,5010,5011	1SS355VM
	D 5009	UDZV5R6
	D 5012	RB060MM-30TF
	D 5013,5014	RB501VM-40
	D 5015-5019	1SS355VM

MISCELLANEOUS

	L 5001 POWER INDUCTOR (0.22 mH)	ATH7053
	L 5201,5202 CHIP BEADS	VTL1126
	JA 5301 1P PIN JACK	PKB1045
	JA 5401 RCA JACK	DKB1120
	KN 5005,5006 SCREW PLATE	VNE1948
	S 5001 PUSH SW	ASG1102
	X 5201 CRYSTAL OSCILLATOR (22.5792 MHz)	DSS1215
	X 5202 CRYSTAL OSCILLATOR (24.576 MHz)	ASS7102
	CN 5001,5002 19P PLUG	AKM7077
	VA 5301-5304,5401 ESD PROTECTOR	EZAEG2N50A
	VA 5402 ESD PROTECTOR	EZAEG2N50A
	VL 5301 TRANSFORMER	DTX1016

RESISTORS

	R 5022	RS1/16SS2701D
	R 5023,5024	RS1/16SS1202D
	R 5028	RS1/4SA0R0J
	R 5036-5039	RS1/10SR471J
	R 5207,5208	RS1/10SR0R0J
	R 5212,5215	RG1608P151D@V
	R 5311	RS1/10SR331J
	R 5312	RS1/10SR101J
	R 5316	RS1/10SR104J

Mark	No.	Description	Part No.
	R 5414-5421		RG1608P331D@V
	R 5442-5445		RG1608P471D@V
	R 5446-5449		RG1608P561D@V
	R 5450-5453		RG1608P103D@V
	R 5468,5469		RS1/10SR473J
	R 5472,5473,5476,5477		RS1/10SR271J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C 5001,5041,5042,5097 (0.1 uF)	ACE7100
	C 5002,5008,5046,5314 (100 uF/16 V)	CCH1565
	C 5003-5007,5015,5037	CKSSYB104K16
	C 5009,5010,5025,5026 (10 uF)	DCH1263
	C 5014,5018-5020,5031	CKSSYB103K16
	C 5021-5023,5028,5034	CCSSCH102J50
	C 5024	CKSQYB224K50
	C 5027,5032,5033,5081	CCSSCH101J50
	C 5035,5060,5061,5068	CCSSCH102J50
	C 5038,5039 (0.01 uF)	ACE7113
	C 5047,5048,5073,5075 (1 uF)	ACE7129
	C 5049,5050,5087,5401 (220 uF/16 V)	CCH2090
	C 5052,5062,5063,5090 (10 uF)	DCH1263
	C 5055,5057,5203,5204	CKSSYB103K16
	C 5056,5058,5064-5067	CKSSYB104K16
	C 5070,5085,5086,5092	CCSSCH102J50
	C 5072,5074,5091,5093	CKSSYB104K16
	C 5077 (100 pF)	ACE7101
	C 5079,5096 (2.2 uF)	CCG1218
	C 5080 (4 700 pF)	ACE7115
	C 5082,5207,5208,5212	CCSSCH101J50
	C 5084,5099,5416,5425 (0.01 uF)	ACE7097
	C 5088,5089,5414,5427 (3.3 uF)	DCE1029
	C 5094,5205,5206,5211	CCSSCH102J50
	C 5095,5201,5202,5209	CKSSYB104K16
	C 5098	CKSSYB473K16
	C 5210,5214,5219,5224	CKSSYB103K16
	C 5213,5220,5223,5227	CKSSYB104K16
	C 5215,5218,5225,5229	CCSSCH102J50
	C 5216,5217,5226,5230	CCSSCH101J50
	C 5228,5232,5301,5303	CKSSYB103K16
	C 5231,5304,5310,5312	CKSSYB104K16
	C 5233,5302,5307,5317	CCSSCH102J50
	C 5234,5319,5404,5409	CCSSCH101J50
	C 5305	CEVW100M16
	C 5308,5320,5489	CKSSYB103K16
	C 5313 (10 uF)	DCH1263
	C 5316,5433,5434	CKSSYB104K16
	C 5318,5490,5493,5496	CCSSCH331J50
	C 5321,5403,5408,5418	CCSSCH102J50
	C 5402,5407,5417,5424 (0.1 uF)	ACE7100
	C 5405	CCSSCH100D50
	C 5406,5415,5426,5443 (1 uF)	ACE7129
	C 5410 (100 uF/16 V)	CCH1565
	C 5411,5430 (470 uF/16 V)	CCH1680
	C 5412,5429,5479,5480 (220 uF/16 V)	CCH2090
	C 5420,5421,5435,5436	CCSSCH101J50
	C 5423,5431,5432,5439	CCSSCH102J50
	C 5437,5438,5445,5446	CEHVAW470M16
	C 5440,5484,5492,5495	CCSSCH102J50

Mark	No.	Description	Part No.
	C	5441,5442 (0.1 uF)	ACE7100
	C	5444,5488 (1 uF)	ACE7129
	C	5447-5450,5471-5474	CFHXSQ472J16
	C	5451-5453,5458,5475	CCSRCH222J50
	C	5460,5462,5464,5466	CFHXS153J16
	C	5467-5470,5477,5478	CKSSYB104K16
	C	5476	CCSRCH222J50
	C	5481,5482	CFHXSQ152J50
	C	5483,5485,5486,5540	CKSSYB104K16
	C	5487 (3.3 uF)	DCE1029
	C	5491,5494,5497,5500	CCSSCH101J50
	C	5498,5501,5507,5510	CCSSCH102J50
	C	5499,5502,5508,5511	CCSSCH331J50
	C	5503,5509,5512,5515	CCSSCH101J50
	C	5513,5516,5519,5522	CCSSCH102J50
	C	5514,5517,5520,5523	CCSSCH331J50
	C	5518,5521,5524,5525	CCSSCH101J50
	C	5526,5529,5532,5535	CCSSCH331J50
	C	5527,5530,5533,5536	CCSSCH102J50
	C	5528,5531,5534,5537	CCSSCH101J50
	C	5538,5542	CCSSCH331J50
	C	5539,5543	CCSSCH102J50
	C	5541	CCSSCH101J50

MLCD ASSY
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MLCB ASSY
ENCB ASSY

EF

MLCD ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	6001	R1290K103A
	IC	6002,6003	74VHC595FT
⚠	IC	6004	IS31BL3555-ZLS4
	Q	6001	2SAR502UB
	Q	6002	2SC4081
	Q	6003,6004,6207,6227	LTC024EEB
	Q	6005	LTA024EEB
	Q	6208-6219,6226,6228	LTC023JEB
	Q	6229,6230	LTA023JEB
	Q	6401	LTC023JEB
	D	6001,6002,6004	RB548W
	D	6003	RB162MM-40TF
	D	6005	RB060MM-60
	D	6221-6224,6271-6274	1SS355L@V
	D	6227,6228,6237,6238	NHSW146A-A21460
	D	6229-6236	FC-F1608BAK5
	D	6239	NSSM124F-A21107
	D	6240	SML-D12U8W
	D	6401,6402	NHSW146A-A21460

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	6001 SMD SPL INDUCTOR	CTH1552
	L	6002 SMD SPL INDUCTOR	CTH1521
	L	6003,6006 CHIP BEEDS FILTER	BTX1042
	L	6004 INDUCTOR	CTF1635
	L	6005,6007 CHIP INDUCTOR	DTL1105
	KN	6001-6012 WRAPPING TERMINAL	CKF1089
	KN	6401-6403 WRAPPING TERMINAL	CKF1089
	S	6207-6212,6401-6404 PUSH SWITCH	CSG1155
	S	6405 ENCODER SW	DSX1080
	CN	6001 FFC/FPC CONNECTOR	DKN1681
	CN	6002,6205 CONNECTOR	CKS6207
	CN	6003 FFC/FPC CONNECTOR	CKS6889
NSP	CN	6202,6401 CONNECTOR	CKS3850
NSP	CN	6204 CONNECTOR	CKS3854
	CN	6209 FFC/FPC CONNECTOR	CKS6625

RESISTORS

Mark	No.	Description	Part No.
	R	6007-6009,6045-6048	RS1/8SQ0R0J
	R	6017,6025,6034,6063	RS1/16SS1202D
	R	6023,6029	RS1/16SS1502D
	R	6027,6038	RS1/16SS1003D
	R	6028	RS1/16SS8201D
	R	6032	RS1/16SS1303D
	R	6033	RS1/16SS6801D
	R	6039	RS1/16SS4702D
	R	6040	RS1/16SS1001D
	R	6056	RS1/10SR151J
	R	6062	RS1/16SS4701D
	R	6071,6072	RS1/4SA332J
	R	6073,6074,6076,6077	RS1/4SA0R0J
	R	6245,6246,6255,6256	RS1/10SR182J
	R	6247,6248,6251-6254	RS1/10SR102J
	R	6249,6250	RS1/10SR911J
	R	6401	RS1/10SR152J
	Other Resistors		RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
	C	6001,6021,6027,6035	CKSSYB104K16
	C	6002,6004,6006,6022	CKSQYB105K16
	C	6003,6005,6007,6009	CKSSYB103K25
	C	6008,6013,6014	CKSQYB105K25
	C	6010,6016,6018	CKSYB475K16
	C	6011	CKSSYB102K50
	C	6012,6017,6020,6024	CKSRYB224K25
	C	6025,6046,6063	CKSSYB103K25
	C	6026	CCSSCH561J50
	C	6028	CKSSYB332K50
	C	6029	CKSSYB224K6R3
	C	6030,6031,6037,6043 (10 uF)	CCG1236
	C	6032	CKSSYB222K50
	C	6033,6039,6044,6048	CKSQYB105K16
	C	6034,6036,6059-6061	CCSSCH102J50
	C	6038,6049,6055,6071	CKSSYB104K16
	C	6040	CKSRYB224K25
	C	6041	CKSRYB474K10
	C	6042	CCSSCH121J50
	C	6045,6050,6051	CKSQYB104K50
	C	6052,6053 (10 uF)	CCG1223
	C	6056-6058 (10 uF)	CCG1236
	C	6062	CKSQYB105K16
	C	6064,6065,6073	CCSSCH102J50
	C	6066-6070	CCSSCH8R0D50
	C	6072 (10 uF)	DCH1263
	C	6074 (1 uF)	ACE7129
	C	6201-6203,6205,6206	CCSSCH102J50
	C	6204,6212,6214,6227	CKSSYB104K16
	C	6207 (220 uF/16 V)	CCH2090
	C	6209,6230	CKSRYB105K10

Mark	No.	Description	Part No.
	C	6210,6226,6229,6231	CCSSCH102J50
	C	6213,6215	CCSSCH101J50
	C	6216	CCSSCH331J50
	C	6228,6402	CKSSYB104K16
	C	6401,6403	CCSSCH102J50

PNLA ASSY
Consists of
JLCD ASSY
PNLB ASSY
ILMB ASSY
JILM1 ASSY
JILM2 ASSY
JILM3 ASSY
JILM4 ASSY
FANB ASSY
KSWB ASSY

G H J N R S T U V

PNLA ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	7001	MM1856A50N
⚠	IC	7002	NJM2872BF33
	IC	7003	TC7SHU04FUS2
	IC	7004	TC74VHC74FK
	IC	7005	BU90R104
	IC	7006	74LCX04FT
	IC	7200	74VHC595FT
	IC	7201	PST8430N
	IC	7202	DYW2196
		*Part number of the initial firmware equipped	
	IC	7203	IS31FL3236AQFLS2
	IC	7204	TC74VHC32FK
	IC	7205	74VHC00FT
⚠	IC	7980	BA00BC0WFP
	Q	7001,7200,7201,7205	LTC024EEB
	Q	7002	LTA024EEB
	Q	7003	RHP020N06
	Q	7204	LTA023JEB
	Q	7206,7209	ISA1602AM1
	Q	7207,7208,7980	LTC024EEB
	Q	7900-7904,7920-7924	LSAR523UB
	Q	7940-7944,7960-7964	LSAR523UB
	Q	7990-7992	LTC014EEB
	D	7001,7002,7980	1SS355VM
	D	7004-7011	EZAEG2N50A
	D	7200-7204,7206,7208	NSSM124F-A21107
	D	7205,7207,7990-7992	SML-D12Y8W
	D	7209,7500-7502	NSSM124F-A21107
	D	7210	UDZV3R6
	D	7900,7901,7920,7921	SML-D12U8W
	D	7902,7922,7942,7962	NHSW157B-A17842
	D	7940,7941,7960,7961	SML-D12U8W
	D	7993	FC-1608UGK-520D
	D	7994,7995	SML-D12Y8W

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	7001,7026 CHIP BEEDS FILTER	BTX1047
	L	7002,7003 CHIP SOLID INDUCTOR	XTL3010
	L	7004-7025 CHIP BEADS	VTL1126
	KN	7200-7202 WRAPPING TERMINAL	CKF1089
	KN	7500,7501 WRAPPING TERMINAL	CKF1089
	S	7200-7203,7205 TACTILE SWITCH	DSG1151
	S	7204,7206,7208,7210 PUSH SWITCH	CSG1155
	S	7207,7209,7211 TACTILE SWITCH	DSG1151
	S	7500 SPRING SWITCH	CSN1031
	S	7501 TACTILE SWITCH	DSG1146
	S	7990,7991 TACTILE SWITCH	DSG1151
	X	7001 CRYSTAL RESONATOR (8 MHz)	CSS1886
	X	7200 CRYSTAL RESONATOR (16 MHz)	BSS1146
	CN	7001,7204 FFC/FPC CONNECTOR	CKS6641
	CN	7002,7206 CONNECTOR	VKN1947
	CN	7003 CONNECTOR	VKN1940
	CN	7004,7202 FFC/FPC CONNECTOR	CKS6646
	CN	7005 CONNECTOR	VKN1941
	CN	7200,7201 17P CONNECTOR	DKN1511
	CN	7205 FFC/FPC CONNECTOR	CKS6645
	CN	7207 CONNECTOR	AKM1290
	CN	7208,7900,7901,7920 CONNECTOR	AKM1289
NSP	CN	7209 CONNECTOR	CKS3860
	CN	7500 FFC CONNECTOR 13PIN	DKN1545
	CN	7921,7940,7941,7960 CONNECTOR	AKM1289
	CN	7980 CONNECTOR	AKM1289
	CN	7981 CONNECTOR	CKS4822
NSP	CN	7990 CONNECTOR	CKS3850

RESISTORS

Mark	No.	Description	Part No.
	R	7001-7004	RS1/4SA560J
	R	7005-7008	RS1/16SS1000D
	R	7053	RS1/4SA470J
	R	7058	RS1/4SA0R0J
	R	7258,7262	RS1/10SR182J
	R	7259,7263	RS1/10SR223J
	R	7260,7264,7283	RS1/10SR563J
	R	7267,7268	RS1/10SR122J
	R	7900,7904,7920,7924	RS1/10SR470J
	R	7901,7905,7921,7925	RS1/10SR471J
	R	7902,7903,7906,7922	RS1/10SR101J
	R	7923,7926,7942,7943	RS1/10SR101J
	R	7940,7944,7960,7964	RS1/10SR470J
	R	7941,7945,7961,7965	RS1/10SR471J
	R	7946,7962,7963,7966	RS1/10SR101J
	R	7980	RS1/16SS2703D
	R	7981	RS1/16SS5602D
	R	7982	RS1/16SS1003D
	R	7984	RS1/10SR0R0J
	R	7990	RS1/4SA331J
	R	7991	RS1/4SA471J
	R	7992-7994	RS1/10SR222J
		Other Resistors	RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
	C	7001,7014,7017,7018	CKSSYB104K16
	C	7004,7006	CKSQYB105K25
	C	7007,7034,7281,7282 (10 uF)	DCH1263
	C	7008,7012,7280	CKSRYB105K10
	C	7009,7204,7275,7283	CCSSCH101J50
	C	7010,7011,7015,7016	CKSSYB103K25
	C	7013,7019,7230	CCSSCH100D50
	C	7020,7022,7025,7026	CKSSYB104K16
	C	7021,7024,7027,7031	CKSSYB103K25
	C	7023 (2.2 uF)	CCG1218

Mark	No.	Description	Part No.
	C	7028	CKSQYB474K16
	C	7029,7035,7037,7039	CCSSCH102J50
	C	7030,7032,7033,7036	CKSSYB104K16
	C	7038,7047,7200-7203	CKSSYB104K16
	C	7040,7042,7044,7050	CCSSCH102J50
	C	7041,7043,7218,7219	CKSSYB103K25
	C	7045,7046	CCSSCH331J50
	C	7051,7278	CKSSYB104K10
	C	7052,7279,7286 (1 uF)	ACE7129
	C	7205-7207,7220,7221	CKSSYB104K16
	C	7208,7209	CCSSCH471J50
	C	7210-7214,7243-7246	CCSSCH102J50
	C	7215,7216,7232,7235 (22 uF)	DCH1256
	C	7217	CKSRYB273K16
	C	7222,7268,7270,7274	CKSSYB103K25
	C	7223	CCSSCH120J50
	C	7224,7226,7227,7229	CKSSYB104K16
	C	7225,7228,7269,7277	CKSSYB103K16
	C	7231,7233,7234	CKSSYB104K16
	C	7236 (22 uF)	DCH1256
	C	7238-7242,7247,7250	CKSSYB104K16
	C	7248,7249,7251	CCSSCH102J50
	C	7252,7982,7992	CKSSYB104K16
	C	7253-7267,7271,7276	CCSSCH102J50
	C	7272,7273,7981 (220 uF/16 V)	CCH2090
	C	7501,7983,7993,7994	CCSSCH102J50
	C	7980 (1 uF)	CCG1325

SUBA ASSY
Consists of
SUB1 ASSY
SUB2 ASSY
SLDB ASSY
CONB ASSY
SSK1 ASSY
SSK2 ASSY
SSK3 ASSY

IKLO
SUBA ASSY

SEMICONDUCTORS

	Q	8000,8001	LSCR523UB
	Q	8002-8004,8006-8009	LTC114YUB
	Q	8005,8010-8012,8200	LTC124EUB
	Q	8201-8204	LTC114YUB
	Q	8205,8400	LTC124EUB
	D	8000,8001,8009,8010	LTL17KSL5D-P
	D	8002,8003,8206,8207	SLR343WBC7T
	D	8004,8005,8011,8014	LTL17KRH5D-P
NSP	D	8006-8008	SLI-343Y8Y
	D	8012,8013,8208,8209	LTL17KSL5D-P
	D	8200,8400	LTL17KGH5D-P
	D	8201-8204	LTL17KCBH5D
	D	8205	LTL17KRH5D-P

MISCELLANEOUS

	KN	8499 LEAF SPRING	DBK1395
	S	8000-8003,8201-8205 SWITCH	VSG1024
	S	8004-8007,8200,8400 TACT SWITCH	DSG1089
	S	8008-8014 TACT SWITCH	DSG1079

Mark	No.	Description	Part No.
	CN	8000,8001 17P CONNECTOR	VKN1248
	CN	8002 9P CONNECTOR	VKN1240
	CN	8200 19P CONNECTOR	VKN1250
	CN	8400 9P JUMPER CONNECTOR	52147-0910
	CN	8499 CONNECTOR	S3B-ZR
	JH	8200 9P CABLE HOLDER	51048-0900
	JP	8200 JUMPER WIRE	D20PDY0910E
	PC	8000,8001 PHOTO INTERRUPTER	GP1S094HCZ0F

RESISTORS

	VR	8200 VARIABLE RESISTOR	DCS1045
	VR	8400 SLIDE VR	DCV1032
	VR	8401 VARIABLE RESISTOR	DCP1107
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	8000-8003,8011	CKSRYB104K16
	C	8004-8010,8205-8209	CCSRCH102J50
	C	8200-8202,8210,8212	CKSRYB104K16
	C	8203,8204	CKSRYB103K50
	C	8211,8213-8216,8406	CCSRCH102J50
	C	8401,8404,8405,8407	CKSRYB104K16
	C	8403	CEJQ470M16
	C	8408-8410	CCSRCH102J50

COIL ASSY
Consists of
COIL1 ASSY
COIL2 ASSY
JOGB ASSY

MPQ
COIL ASSY

SEMICONDUCTORS

	IC	8700	TC7SZ08FUS2
	IC	8701	PST8430N
⚠	IC	8702	NJM2386ADL3-33
	Q	8700-8702	RTQ045N03
	D	8700	RB060L-40
	D	8701	RB751SM-40

MISCELLANEOUS

	CN	4990 L-PLUG(4P)	KM200NA4L
	CN	8600 CONNECTOR	VKN1940
	CN	8700 04P CONNECTOR	RKN1045
	PC	4990 PHOTO INTERRUPTER	KE-2N10-36

RESISTORS

	R	8701-8704	RS1/4SA151J
		Other Resistors	RS1/16SS###J

CAPACITORS

	C	4990 (2.2 uF)	CCG1379
	C	4991,8702	CKSSYB104K16
	C	8600,8601	CCSSCH331J50
	C	8701,8707	CCSSCH101J50
	C	8703	CKSSYB103K25
	C	8705,8706,8708 (22 uF)	DCH1256

W SW POWER SUPPLY

There is no service parts.